

Project Number
18.00172



HUBBELL
Lighting

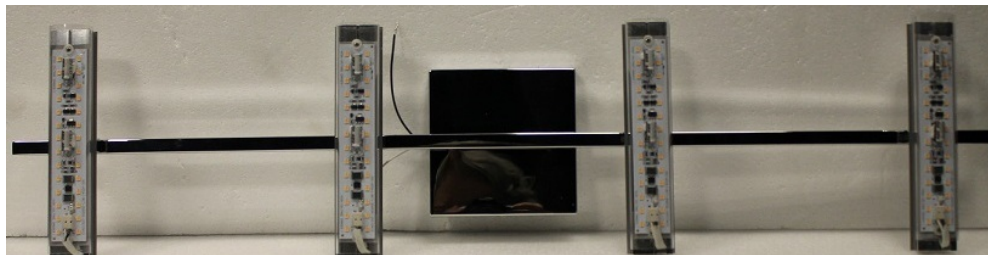
Date
2/16/2018

Lab 1

Test Sample Description

Catalog Number: P300188-015-30
Description: 4-Light Bath Vanity with AC LED Modules and Etched White Glass Refractors

Test Methods: IES LM-46-04
IES LM-79-08 §10
Preburn Time: 0:05
Time To Stabilize: 0:45
Total Operating Time: 2:17
Input Voltage (Volts): 120.0
Input Current (Amps): 0.325
Input Wattage (Watts): 38.8
Ambient Temp (°C): 25.9
PF @ 120V: 0.992
THD @ 120V (%): 11.22



Hubbell Lighting, Inc.

701 Millennium Boulevard
Greenville, SC 29607
www.hubbellighting.com

Checked: D. ROBBINS
Approved: P. McCARTHY



This report shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.



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LUMINAIRE: 4-Light Bath Vanity with AC LED Modules and
Etched White Glass Refractors

LAMP CAT. NO.: EVAC120C-3528SE-L28-14S2P-201

LAMP: 4- AC LED Modules, Each with 28- Seoul 3000K LEDs

MOUNTING: Wall

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.



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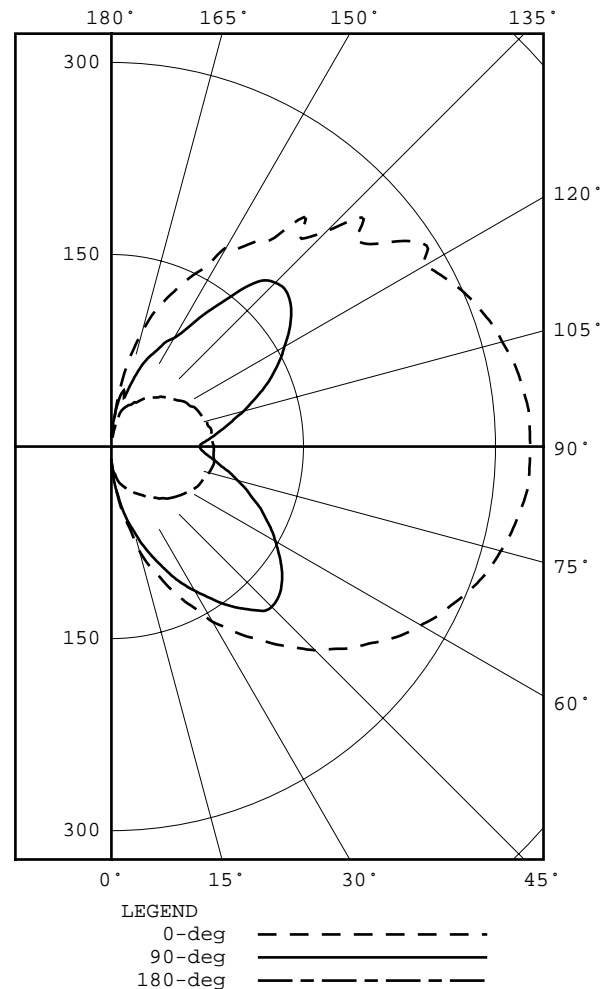
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CANDELA DISTRIBUTION						FLUX
	0.0	45.0	90.0	135.0	180.0	
0	11	11	11	11	11	
5	28	28	29	23	20	3
15	84	79	69	44	31	18
25	132	129	111	62	39	45
35	180	180	149	75	48	81
45	225	222	177	87	57	122
55	263	263	162	97	66	161
65	293	295	133	106	74	192
75	315	318	102	112	79	214
85	327	330	75	115	80	223
90	327	330	69	115	80	
95	327	330	78	115	80	222
105	316	319	107	111	77	212
115	297	298	141	105	72	192
125	280	267	171	97	63	162
135	238	231	181	82	55	124
145	195	187	126	77	46	81
155	146	129	82	53	36	42
165	92	70	40	26	28	15
175	15	24	21	14	6	2
180	8	8	8	8	8	

ZONAL	LUMEN	SUMMARY	
ZONE	LUMENS		%FIXT
0- 30	66		3.1
0- 40	147		7.0
0- 60	430		20.4
0- 90	1059		50.2
90-120	626		29.6
90-130	788		37.3
90-150	993		47.0
90-180	1053		49.8
0-180	2112		100.0

EFFICACY = 54.4 lm/W
CIE TYPE - GENERAL DIFFUSE
PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 2.500 10.000
HEIGHT OF SIDE : 7.500 7.500

LUMINANCE DATA IN CANDELA/SQ M			
ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	90-DEG	180-DEG
45	4932.	8868.	1249.
55	5380.	8455.	1350.
65	5783.	7480.	1460.
75	6187.	6432.	1552.
85	6592.	5574.	1613.





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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	5.0	10.0	15.0	20.0	22.5	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0
0.0	11	11	11	11	11	11	11	11	11	11	11	11	11	11
2.5	16	16	15	16	16	16	15	16	16	16	16	16	17	17
5.0	28	27	27	27	27	28	27	28	27	28	28	28	28	28
7.5	40	39	39	40	39	40	40	40	40	40	39	41	40	40
10.0	54	54	53	54	54	55	54	55	54	54	54	54	54	54
12.5	65	67	67	68	68	69	68	68	67	68	67	67	66	65
15.0	84	82	82	83	82	83	82	82	81	80	79	79	78	78
17.5	97	95	95	95	96	97	95	96	94	93	92	92	91	90
20.0	107	109	108	108	109	110	107	107	106	106	104	103	103	101
22.5	120	121	120	120	122	122	121	122	121	118	117	116	115	114
25.0	132	134	135	133	134	136	134	133	134	132	129	129	128	126
27.5	143	144	146	145	143	145	145	147	144	144	143	140	137	136
30.0	158	156	156	159	160	159	156	156	157	156	152	152	151	149
32.5	168	168	169	169	169	170	170	172	168	167	165	165	162	160
35.0	180	180	180	181	184	184	182	182	180	181	180	176	173	170
37.5	190	193	192	193	192	193	192	193	193	191	188	187	184	183
40.0	202	203	203	204	205	206	205	205	203	203	200	199	197	193
42.5	213	213	215	216	216	217	215	215	213	213	212	210	207	203
45.0	225	225	225	226	226	228	226	226	226	226	222	221	218	214
47.5	234	235	235	237	237	238	237	238	237	235	233	231	229	225
50.0	245	245	246	247	247	248	247	247	246	245	243	242	239	234
52.5	253	255	256	257	256	257	256	256	255	255	252	252	249	244
55.0	263	264	265	266	266	267	265	266	265	264	263	261	258	252
57.5	272	272	273	274	274	275	274	275	274	273	272	270	266	259
60.0	279	280	281	282	282	283	282	283	283	281	280	279	275	267
62.5	287	288	289	290	290	291	289	290	290	289	288	286	283	273
65.0	293	294	296	296	297	298	297	297	297	296	295	294	289	279
67.5	300	301	302	303	303	304	303	303	303	303	302	301	296	284
70.0	306	307	308	309	309	310	309	310	309	309	308	307	302	290
72.5	311	312	313	314	314	315	314	314	314	314	314	313	307	294
75.0	315	316	317	318	318	320	318	319	319	318	318	318	312	298
77.5	319	320	322	322	322	324	322	323	323	322	322	322	316	302
80.0	322	323	325	326	326	326	325	326	326	326	325	326	319	305
82.5	325	326	327	327	329	329	328	328	328	328	329	328	322	307
85.0	327	327	328	330	330	331	329	330	330	330	330	330	324	309
87.5	327	328	329	330	330	331	330	330	331	330	331	330	324	310
90.0	327	328	329	331	331	331	330	330	331	331	330	330	325	310
92.5	327	328	330	332	331	331	330	330	331	330	330	330	324	310
95.0	327	328	329	330	330	331	330	330	330	330	330	330	324	310
97.5	325	326	327	328	328	329	328	328	329	328	328	327	322	308
100.0	323	323	325	326	326	327	326	326	326	326	326	325	320	305
102.5	320	321	322	323	324	324	323	323	323	322	322	322	317	303
105.0	316	318	319	320	320	321	320	320	320	319	319	318	314	300
107.5	313	313	315	315	316	316	315	315	316	315	314	313	309	296
110.0	308	309	310	310	311	311	311	310	310	309	309	307	305	292
112.5	303	304	305	305	306	306	305	305	305	304	303	302	299	288
115.0	297	297	299	300	300	300	300	299	299	298	298	296	293	283
117.5	290	290	292	292	293	293	293	292	292	291	291	289	287	277
120.0	283	284	285	287	290	291	290	290	289	288	286	283	280	271
122.5	292	291	286	284	284	283	283	281	280	278	277	274	272	266
125.0	280	278	280	280	276	274	271	270	269	268	267	266	265	258
127.5	260	261	264	265	269	269	270	266	260	258	257	255	254	248
130.0	250	251	254	259	263	265	264	265	261	255	249	246	244	240
132.5	265	258	252	249	248	247	247	246	246	244	243	237	234	230
135.0	238	239	243	243	238	237	234	232	233	232	231	229	227	220
137.5	220	221	226	232	239	241	238	233	225	220	219	217	216	213
140.0	234	226	220	217	218	217	217	216	216	211	206	205	204	201
142.5	203	204	209	209	207	207	205	205	205	204	200	194	192	189
145.0	195	201	202	198	201	201	200	194	192	189	187	185	182	178
147.5	183	182	184	183	183	184	183	184	183	180	177	175	172	167

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CANDELA DISTRIBUTION
LATERAL ANGLE

	0.0	5.0	10.0	15.0	20.0	22.5	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0
150.0	180	176	174	171	172	173	173	170	167	166	165	161	156	150
152.5	157	157	164	166	164	161	161	157	156	152	147	142	139	135
155.0	146	146	148	149	148	148	146	145	141	133	129	123	121	115
157.5	133	135	136	136	135	135	135	129	121	115	110	107	106	104
160.0	121	122	124	121	121	118	116	108	103	98	98	95	94	91
162.5	109	107	107	107	102	99	95	91	90	87	87	83	79	73
165.0	92	92	91	87	81	79	79	77	75	73	70	62	56	52
167.5	76	74	71	65	65	64	64	63	60	54	48	41	41	43
170.0	58	56	51	49	48	46	45	43	41	37	35	36	39	41
172.5	38	36	35	34	34	34	34	32	31	30	31	34	35	34
175.0	15	17	20	21	21	21	21	21	20	22	24	23	22	22
177.5	9	9	10	11	11	11	10	12	15	14	14	13	14	13
180.0	8	8	8	8	8	8	8	8	8	8	8	8	8	8



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LATERAL ANGLE

	65.0	67.5	70.0	75.0	80.0	85.0	90.0	95.0	100.0	105.0	110.0	112.5	115.0	120.0
0.0	11	11	11	11	11	11	11	11	11	11	11	11	11	11
2.5	17	17	17	17	18	18	19	18	18	18	18	18	18	18
5.0	29	29	29	29	29	29	29	28	28	27	27	26	26	25
7.5	40	40	40	39	39	39	38	37	36	34	34	34	33	31
10.0	53	52	52	51	51	50	50	48	46	44	43	42	41	39
12.5	65	64	64	62	62	61	60	58	55	53	50	49	49	46
15.0	76	76	74	73	72	71	69	66	64	60	58	57	56	53
17.5	88	87	86	84	83	82	80	76	73	69	67	65	64	60
20.0	100	99	98	95	94	93	90	86	82	78	74	73	71	67
22.5	111	110	108	106	105	103	100	95	90	85	82	80	78	73
25.0	123	121	120	117	115	114	111	106	100	94	90	87	85	80
27.5	135	132	130	127	125	123	121	115	108	102	97	94	92	85
30.0	144	143	140	138	136	133	130	123	116	110	105	102	98	91
32.5	156	154	152	148	145	143	139	132	125	118	111	108	104	96
35.0	167	165	163	159	156	153	149	141	134	126	118	114	110	101
37.5	178	175	173	168	165	162	158	149	141	132	124	120	115	105
40.0	188	186	183	179	174	171	166	158	149	139	130	125	120	109
42.5	199	196	194	189	184	179	174	166	157	147	136	131	125	114
45.0	209	207	204	198	192	184	177	170	163	153	141	135	129	116
47.5	219	216	213	206	197	186	176	171	167	159	146	139	133	120
50.0	229	225	222	215	203	187	173	169	169	164	150	142	136	122
52.5	237	234	230	223	207	186	168	166	170	168	154	146	139	125
55.0	245	241	238	230	211	184	162	161	170	172	157	148	140	127
57.5	251	247	244	237	214	182	155	156	169	176	159	150	142	129
60.0	258	254	251	243	217	180	148	151	168	178	161	152	144	132
62.5	264	261	257	249	220	177	141	146	166	180	164	154	146	134
65.0	270	266	263	255	222	174	133	140	162	181	166	156	147	136
67.5	276	272	268	260	224	171	126	133	159	181	167	158	149	137
70.0	280	276	273	265	225	168	117	125	154	182	170	158	148	137
72.5	284	280	278	270	226	164	110	119	150	181	171	159	147	137
75.0	288	284	281	273	227	161	102	111	145	181	170	158	145	135
77.5	292	288	285	276	227	157	95	105	141	180	169	155	141	134
80.0	295	291	288	279	227	153	87	99	137	179	168	152	139	133
82.5	297	293	290	280	227	150	81	93	133	179	168	151	136	132
85.0	298	294	291	281	226	147	75	88	130	178	168	149	132	129
87.5	298	294	291	281	225	145	71	84	128	178	169	148	129	127
90.0	298	294	291	282	225	144	69	83	127	178	171	148	126	124
92.5	298	294	291	282	226	146	72	85	128	178	171	148	125	120
95.0	298	294	291	282	228	150	78	89	131	177	170	148	125	118
97.5	296	293	289	280	229	153	84	94	133	177	168	148	125	116
100.0	294	290	287	279	230	158	91	100	137	176	168	150	128	115
102.5	292	288	285	276	231	163	98	105	140	177	168	151	130	113
105.0	289	285	282	274	231	167	107	113	145	178	169	153	132	113
107.5	285	281	278	270	231	171	115	119	148	179	170	155	133	111
110.0	281	277	274	266	230	175	124	127	153	180	170	156	135	110
112.5	277	273	270	262	230	179	133	134	158	181	169	157	137	109
115.0	273	268	265	258	229	183	141	142	162	181	168	157	137	108
117.5	267	263	259	252	226	186	149	147	165	180	167	156	136	106
120.0	262	257	253	246	224	188	156	153	168	178	165	154	135	105
122.5	256	251	248	240	221	191	164	160	170	177	163	152	133	104
125.0	249	245	242	234	218	193	171	164	171	174	160	149	131	103
127.5	242	238	234	227	213	195	177	169	172	171	155	146	129	101
130.0	234	230	226	220	209	195	181	173	172	167	150	142	127	99
132.5	225	221	218	211	203	193	183	174	169	161	146	139	125	97
135.0	215	213	209	203	196	190	181	172	166	155	141	134	122	95
137.5	206	203	200	194	188	184	176	164	157	147	134	129	118	91
140.0	197	194	190	184	179	172	162	152	147	139	128	123	113	89
142.5	186	183	181	176	168	157	142	134	131	127	119	115	106	88
145.0	174	173	170	166	155	139	126	118	117	116	112	108	102	90
147.5	162	159	156	150	137	119	109	104	101	102	102	100	96	90



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CANDELA DISTRIBUTION
LATERAL ANGLE

	65.0	67.5	70.0	75.0	80.0	85.0	90.0	95.0	100.0	105.0	110.0	112.5	115.0	120.0
150.0	146	144	141	131	115	104	98	94	89	87	90	91	89	86
152.5	129	126	122	112	100	95	92	87	83	79	81	83	81	77
155.0	113	111	109	99	90	86	82	79	74	71	73	74	73	70
157.5	102	99	97	88	81	79	75	70	66	63	64	65	64	62
160.0	87	84	81	75	71	69	65	60	56	54	54	54	54	54
162.5	68	65	65	62	59	56	52	48	45	45	43	44	43	43
165.0	51	52	51	48	45	44	40	38	36	36	34	33	32	31
167.5	45	46	46	46	47	47	45	43	42	38	36	34	33	30
170.0	42	42	42	41	40	40	40	39	36	34	32	31	31	30
172.5	33	33	33	32	32	32	31	31	28	27	26	26	25	24
175.0	22	22	22	21	21	21	21	21	20	19	18	18	17	17
177.5	13	14	13	13	13	13	13	14	12	12	11	10	10	10
180.0	8	8	8	8	8	8	8	8	8	8	8	8	8	8



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CANDELA DISTRIBUTION
LATERAL ANGLE

	125.0	130.0	135.0	140.0	145.0	150.0	155.0	157.5	160.0	165.0	170.0	175.0	180.0
0.0	11	11	11	11	11	11	11	11	11	11	11	11	11
2.5	18	17	17	17	17	17	17	17	17	17	17	16	16
5.0	25	24	23	23	22	22	21	21	21	20	20	20	20
7.5	30	29	28	27	26	25	24	24	23	23	22	22	22
10.0	37	36	34	33	31	30	29	28	28	27	26	26	26
12.5	44	41	40	37	35	34	32	31	31	30	29	29	29
15.0	50	47	44	42	39	37	35	34	33	32	31	31	31
17.5	56	53	49	46	43	41	38	37	36	35	34	33	33
20.0	62	58	54	50	47	43	41	39	38	37	36	35	35
22.5	68	63	58	53	49	46	43	41	40	39	37	37	36
25.0	73	68	62	57	53	49	46	45	43	42	40	39	39
27.5	78	71	65	60	55	52	48	47	46	44	42	41	41
30.0	83	76	69	63	58	54	51	50	48	46	44	44	43
32.5	87	79	72	66	61	57	53	52	51	49	47	46	45
35.0	92	83	75	69	63	60	56	55	54	52	49	48	48
37.5	95	86	78	71	66	62	59	58	56	54	52	50	50
40.0	98	89	80	74	69	64	62	60	59	56	54	53	52
42.5	103	93	84	78	72	68	65	64	62	60	57	56	55
45.0	105	95	87	80	74	70	67	66	65	62	59	58	57
47.5	108	98	90	83	77	73	70	69	68	65	62	60	60
50.0	111	101	93	85	80	75	72	71	70	67	64	63	62
52.5	114	104	95	88	83	78	75	74	72	70	67	65	64
55.0	116	106	97	90	84	80	76	75	74	71	69	67	66
57.5	118	108	100	92	86	82	78	77	75	73	70	68	68
60.0	121	111	102	95	89	84	80	78	77	76	73	71	70
62.5	123	113	104	97	91	85	82	80	79	78	75	73	72
65.0	125	115	106	99	93	87	83	81	80	79	77	74	74
67.5	127	116	108	100	94	88	84	82	81	81	78	76	75
70.0	128	118	109	101	95	89	85	83	82	82	80	77	76
72.5	130	120	111	103	97	91	87	85	84	84	82	79	78
75.0	131	121	112	104	97	91	87	85	84	85	82	80	79
77.5	132	122	113	105	98	92	87	86	85	87	84	81	80
80.0	133	123	114	106	99	92	87	86	85	87	84	82	81
82.5	133	124	115	106	99	91	87	85	85	87	84	81	81
85.0	133	124	115	106	98	90	86	85	84	87	84	81	80
87.5	133	124	115	107	98	89	86	85	84	87	84	81	80
90.0	133	124	115	106	98	88	85	84	84	86	84	81	80
92.5	132	123	114	106	97	87	84	83	83	85	83	80	79
95.0	132	123	115	106	96	86	84	84	83	86	83	81	80
97.5	131	123	114	105	95	85	83	83	83	85	83	80	79
100.0	130	122	113	104	94	83	82	82	82	84	82	80	79
102.5	128	120	111	102	92	81	80	81	81	82	81	78	77
105.0	127	120	111	102	91	80	80	81	81	82	80	78	77
107.5	125	118	109	100	89	78	78	79	79	80	78	76	75
110.0	123	117	108	99	88	76	77	78	78	79	77	75	74
112.5	123	116	107	98	87	75	75	77	77	78	76	74	73
115.0	122	115	105	97	86	74	74	76	77	76	75	72	72
117.5	120	113	103	95	84	71	72	74	75	74	72	70	69
120.0	118	111	101	93	82	69	70	72	73	73	70	68	68
122.5	117	109	99	91	80	67	68	71	71	71	68	66	66
125.0	116	106	97	89	77	62	66	68	70	68	66	64	63
127.5	114	104	94	86	72	57	63	66	68	65	62	61	61
130.0	112	101	91	81	68	56	61	64	66	62	57	59	59
132.5	109	99	87	77	65	55	59	62	64	60	53	57	57
135.0	105	94	82	73	64	55	56	59	61	58	50	55	55
137.5	99	88	78	71	64	54	53	56	59	55	50	53	52
140.0	94	84	76	72	63	52	51	53	56	51	50	51	50
142.5	89	82	76	71	60	49	48	51	54	47	49	48	48
145.0	87	83	77	69	58	47	46	49	51	44	48	47	46
147.5	87	81	73	66	55	45	44	46	46	42	45	44	43



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CANDELA DISTRIBUTION
LATERAL ANGLE

	125.0	130.0	135.0	140.0	145.0	150.0	155.0	157.5	160.0	165.0	170.0	175.0	180.0
150.0	81	75	68	61	51	43	41	42	41	41	42	41	40
152.5	72	67	61	56	49	41	39	39	39	41	40	39	39
155.0	64	58	53	49	43	38	35	36	37	39	37	36	36
157.5	59	54	49	44	38	34	34	35	37	38	36	35	35
160.0	51	48	43	39	34	30	32	33	34	34	34	33	33
162.5	42	40	36	32	29	29	30	30	31	31	31	31	31
165.0	30	28	26	26	26	27	27	26	26	25	26	27	28
167.5	25	22	20	20	21	23	23	22	23	22	22	23	22
170.0	27	23	19	16	15	17	17	17	16	16	16	15	15
172.5	23	22	21	18	15	14	14	13	13	13	11	9	9
175.0	16	15	14	14	13	11	10	9	8	7	7	6	6
177.5	10	10	10	9	9	9	8	8	7	6	6	6	6
180.0	8	8	8	8	8	8	8	8	8	8	8	8	8



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5-DEGREE ZONAL LUMEN SUMMARY		
0- 5		0
5- 10		3
10- 15		6
15- 20		12
20- 25		19
25- 30		27
30- 35		36
35- 40		45
40- 45		56
45- 50		66
50- 55		76
55- 60		85
60- 65		93
65- 70		99
70- 75		105
75- 80		109
80- 85		111
85- 90		112
90- 95		112
95-100		111
100-105		108
105-110		104
110-115		99
115-120		93
120-125		85
125-130		77
130-135		67
135-140		57
140-145		46
145-150		35
150-155		25
155-160		17
160-165		10
165-170		5
170-175		2
175-180		0

10-DEGREE ZONAL LUMEN SUMMARY		
0- 10		3
0- 20		21
0- 30		66
0- 40		147
0- 50		270
0- 60		430
0- 70		622
0- 80		836
0- 90		1059
0-100		1281
0-110		1493
0-120		1685
0-130		1847
0-140		1971
0-150		2052
0-160		2095
0-170		2109
0-180		2112



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30		10
0	107	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	92	86	80	74	74	84	79	73	68	65	61	57	53	49	47	41	39	37	31
2	82	72	63	56	56	74	66	58	52	54	48	43	43	39	35	33	30	27	22
3	73	61	52	44	44	67	56	48	41	46	39	34	36	31	27	28	24	20	16
4	66	53	43	36	36	60	48	40	33	40	33	27	31	26	22	24	20	16	12
5	60	47	37	30	30	55	42	34	27	35	28	22	27	22	18	21	16	13	10
6	55	41	32	25	25	50	38	29	23	31	24	19	24	19	15	18	14	11	8
7	51	37	28	21	21	46	34	25	20	28	21	16	22	17	13	16	12	9	6
8	47	33	24	18	18	43	30	22	17	25	18	14	20	15	11	15	11	8	5
9	43	30	22	16	16	39	27	20	15	23	16	12	18	13	9	14	10	7	4
10	40	27	19	14	14	37	25	18	13	21	15	11	16	12	8	13	9	6	4

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.

Project Number
18.00172



HUBBELL
Lighting

Date
2/16/2018

Goniophotometer Calibration

Calibration Lamp: GE 1000W, 120V, T6, CL (FEL)

Lamp Number: ITL78966-1000-36

Calibration Current: 8.300 Amps DC

Total Luminous Flux: 25889.0 Lumens

Calibration Date: 07/10/2017

Test Equipment Used

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
<i>Goniophotometer</i>	ITL / HLI LAB 1 - Test Distance: 31.75'	N/A	N/A
<i>Power Analyzer</i>	Yokogawa / WT 332	C2QA27071V	10/25/2018
<i>Power Source</i>	Voltage-Regulated House Power	616020002113	N/A
<i>Thermometer</i>	National Instruments / USB-TC01	176F4E3	10/26/2018

Hubbell Lighting, Inc.

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This report shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.