Photometric Report

Columbia LIGHTING

Hubbell Lighting, Inc.

LUMINAIRE: LXEW4-35M-FAN-EU
LXEW Led Enclosed and Gasketed, Extreme Environment
4' LED Enclosed and Gasketed High Bay w/ M4R Reflector & FA Refractor
BALLAST: XI190C275V054BSG1
BALLAST FACTOR: 1.00
LAMP: LED
FIXTURE LUMENS: 15447
WATTS: 121.40
MOUNTING: Surface
SHIELDING ANGLE: 0º = 90 90º = 90
SPACING CRITERION: 0º = 1.23 90º = 0.97
LUMINOUS OPENING IN FEET
LENGTH: 4.17
WIDTH: 1.08
HEIGHT: 0.23

TEST #17.01502
DATE: 5/23/2017
TOTAL LUMINAIRE EFFICIENCY = 100.0
TOTAL LUMENS PER WATT = 127
ANSI/IESNA RP-1-2004 COMPLIANCE: NONCOMPLIANT
COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = $1.88
BASED ON 3000 HRS. AND $.08 PER KWH

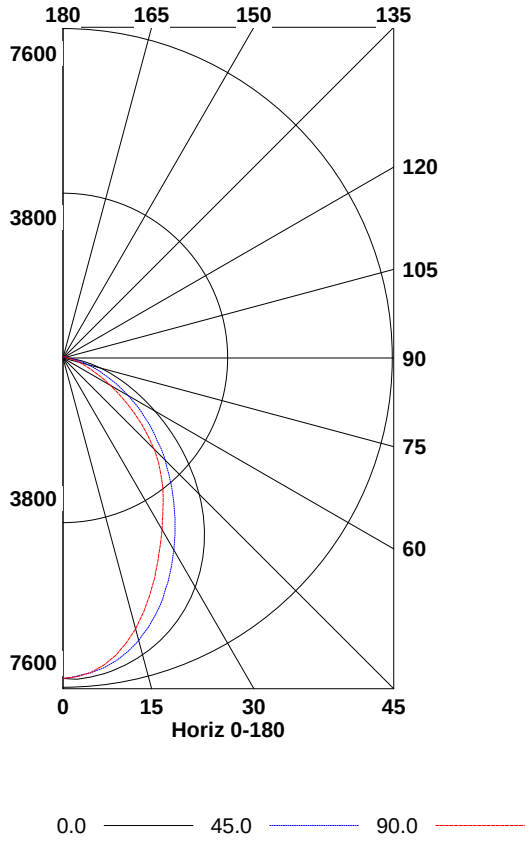
ZONAL LUMENS

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	5258	34.0	34.0
0-40	8178	52.9	52.9
0-60	12968	84.0	84.0
0-90	15168	98.2	98.2
90-120	227	1.5	1.5
90-130	260	1.7	1.7
90-150	279	1.8	1.8
90-180	279	1.8	1.8
0-180	15447	100.0	100.0

AVERAGE LUMINANCE CANDELA/SQ M

ANGLE	0.0	22.5	45.0	67.5	90.0
0	17667	17667	17667	17667	17667
30	16321	14785	12744	11492	11236
40	15119	12922	10509	9496	9310
45	14236	11802	9479	8504	8299
50	13167	10620	8407	7371	7017
55	11986	9391	7348	6112	5643
60	10673	8161	6254	4869	4407
65	9366	7007	5195	3797	3354
70	8162	5902	4186	2911	2561
75	6915	4789	3250	2226	1960
80	5525	3576	2414	1687	1527
85	4020	2443	1749	1296	1214

INDOOR CANDELA PLOT



COEFFICIENTS OF UTILIZATION (%) **ZONAL CAVITY METHOD**

EFFECTIVE FLOOR CAVITY REFLECTANCE = 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%
	0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
	1	109	105	101	98	107	103	99	96	98	95	93	94	92	90	90	88	87	85
	2	101	93	87	82	98	91	85	81	87	83	79	84	80	77	81	77	75	72
	3	93	83	75	70	90	81	74	69	78	72	67	75	70	66	72	68	65	63
R	4	85	74	66	60	83	73	65	60	70	64	59	68	62	58	65	61	57	55
C	5	79	67	59	53	77	66	58	52	64	57	51	61	55	51	60	54	50	48
R	6	73	61	52	47	71	60	52	46	58	51	46	56	50	45	54	49	45	43
	7	68	56	47	42	66	55	47	41	53	46	41	51	45	41	50	44	40	38
	8	64	51	43	37	62	50	43	37	49	42	37	47	41	37	46	41	36	35
	9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
	10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29

RCR = ROOM CAVITY RATIO RC = EFFECTIVE CEILING CAVITY REFLECTANCE RW = WALL REFLECTANCE
THE DATA IN THIS REPORT ARE BASED ON ABSOLUTE MEASUREMENTS.
ANSI/IESNA RP-1 COMPLIANCE IS BASED ON ABSOLUTE MEASUREMENTS.
THIS TEST RUN IN ACCORDANCE WITH CURRENT I.E.S.N.A. PUBLISHED PROCEDURES.

APPROVED BY:_____

Tel 864 678 1000 701 Millennium Blvd. Greenville, SC 29607

Columbia LIGHTING

Photometric Report

Hubbell Lighting, Inc.

LUMINAIRE: LXEW4-35M-FAN-EU
LXEW Led Enclosed and Gasketed, Extreme Environment
4' LED Enclosed and Gasketed High Bay w/ M4R Reflector & FA Refractor

TEST #17.01502
DATE: 5/23/2017

CANDELA VALUES

ANGLE	0.0	22.5	45.0	67.5	90.0
0.0	7392	7392	7392	7392	7392
2.5	**7420***	7392	7345	7359	7359
5.0	7389	7355	7293	7286	7284
7.5	7341	7295	7207	7169	7153
10.0	7275	7215	7089	7011	6971
12.5	7188	7113	6932	6794	6734
15.0	7090	6988	6746	6550	6470
17.5	6973	6838	6525	6274	6158
20.0	6831	6666	6277	5960	5840
22.5	6678	6472	6012	5638	5513
25.0	6509	6261	5724	5319	5175
27.5	6311	6023	5416	4997	4864
30.0	6102	5767	5123	4688	4572
32.5	5873	5500	4812	4401	4285
35.0	5615	5212	4503	4122	4029
37.5	5351	4902	4204	3856	3781
40.0	5070	4602	3904	3600	3517
42.5	4757	4280	3607	3337	3255
45.0	4444	3954	3336	3064	2978
47.5	4120	3634	3056	2782	2670
50.0	3774	3307	2772	2497	2366
52.5	3438	2992	2510	2203	2066
55.0	3103	2680	2241	1923	1766
57.5	2760	2381	1987	1651	1501
60.0	2446	2099	1738	1403	1262
62.5	2147	1839	1504	1183	1043
65.0	1852	1591	1292	985	864
67.5	1589	1366	1088	809	707
70.0	1345	1152	911	666	581
72.5	1110	954	747	544	475
75.0	903	775	601	437	381
77.5	710	607	475	349	306
80.0	527	455	364	274	245
82.5	370	327	272	211	192
85.0	239	224	202	165	152
87.5	142	151	149	129	121
90.0	104	111	115	104	98
92.5	98	94	94	87	83
95.0	94	87	83	77	74
97.5	92	84	79	73	70
100.0	90	79	76	72	70
102.5	86	75	74	72	71
105.0	81	71	72	72	71
107.5	75	66	69	71	71
110.0	68	60	66	69	70
112.5	61	53	63	67	68
115.0	53	46	58	63	66
117.5	46	39	53	60	63
120.0	39	32	48	56	60
122.5	33	26	43	52	56
125.0	27	21	37	47	52
127.5	22	16	31	42	47
130.0	19	13	26	37	42
132.5	15	11	21	32	37
135.0	13	9	16	28	32
137.5	11	8	12	24	28
140.0	9	6	8	19	24
142.5	7	5	5	15	19
145.0	5	4	3	11	15
147.5	4	3	2	8	11
150.0	0	0	0	0	0
152.5	0	0	0	0	0
155.0	0	0	0	0	0
157.5	0	0	0	0	0
160.0	0	0	0	0	0
162.5	0	0	0	0	0
165.0	0	0	0	0	0
167.5	0	0	0	0	0
170.0	0	0	0	0	0
172.5	0	0	0	0	0
175.0	0	0	0	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0

*MAXIMUM CANDELA VALUE

Tel 864 678 1000 701 Millennium Blvd. Greenville, SC 29607