

LUMINAIRE: CLB4-50HH-N-EDU
Columbia Linear Highbay

TEST #CLB4-50HH-N-EDU
DATE: 3/3/2021

BALLAST:
BALLAST FACTOR: 1.00
LAMP:
FIXTURE LUMENS: 61353
WATTS: 418.9
SHIELDING ANGLE: N/A
SPACING CRITERION: 0° = 1.20 90° = 1.09
LUMINOUS OPENING IN FEET
LENGTH: 3.59
WIDTH: 1.23
HEIGHT: 0.00

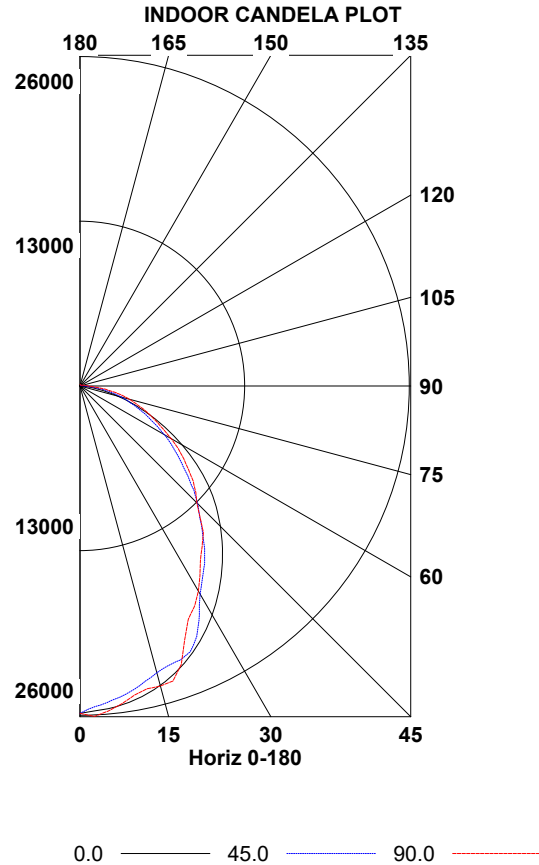
TOTAL LUMINAIRE EFFICIENCY = 100.0
TOTAL LUMENS PER WATT = 146
ANSI/IESNA RP-1-2004 COMPLIANCE: NONCOMPLIANT
COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$1.64
BASED ON 3000 HRS. AND \$.08 PER KWH

ZONAL LUMENS

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	18959	30.9	30.9
0-40	30017	48.9	48.9
0-60	49505	80.7	80.7
0-90	60606	98.8	98.8
90-120	463	0.8	0.8
90-130	533	0.9	0.9
90-150	662	1.1	1.1
90-180	747	1.2	1.2
0-180	61353	100.0	100.0

AVERAGE LUMINANCE

ANGLE	CANDELA/SQ M				
	0.0	22.5	45.0	67.5	90.0
0	62970	62970	62970	62970	62970
30	58712	58781	53418	51358	52616
40	55679	54497	47792	46447	48173
45	54027	50735	45249	43468	44928
50	51989	46690	42249	42085	44180
55	49336	42368	39718	40464	42543
60	45498	38777	37515	38536	40587
65	40601	35146	34979	36143	38537
70	35209	31357	33099	34990	37916
75	29198	28176	31891	34643	37873
80	22497	25380	30694	34122	38520
85	14581	21866	27978	34182	40159



COEFFICIENTS OF UTILIZATION (%)

RC	EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%																		
	RW	80%				70%				50%				30%				10%	0%
		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	101	101	101	99	
1	109	104	100	96	106	102	98	95	97	94	92	93	91	89	90	88	86	84	
2	99	92	85	80	97	90	84	78	86	81	76	82	78	75	79	76	73	71	
3	91	81	73	67	89	79	72	66	76	70	65	73	68	64	71	66	62	60	
R	4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	63	58	54	52
C	5	77	65	56	50	75	64	55	49	61	54	49	59	53	48	57	52	47	45
R	6	72	59	50	44	70	58	49	43	56	48	43	54	47	43	52	47	42	40
	7	67	53	45	39	65	53	44	39	51	44	38	49	43	38	48	42	38	36
	8	62	49	41	35	60	48	40	35	47	40	34	45	39	34	44	38	34	32
	9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29
	10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

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: _____

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CANDELA VALUES

ANGLE	0.0	22.5	45.0	67.5	90.0
0.0	25832	25832	25832	25832	25832
2.5	25671	25509	25353	25253	26104*
5.0	25564	25309	25057	24905	25741
7.5	25387	25055	24731	24491	25297
10.0	25148	24767	24335	23979	24769
12.5	24838	24452	23851	23632	24473
15.0	24466	24099	23423	23560	24515
17.5	24021	23678	23143	23573	24412
20.0	23512	23182	23029	22893	23378
22.5	22936	22620	22711	21389	21617
25.0	22298	22033	21811	19833	20272
27.5	21607	21445	20413	18967	19585
30.0	20859	20883	18978	18246	18693
32.5	20070	20281	17978	17291	17634
35.0	19236	19490	17139	16214	16606
37.5	18378	18399	16163	15268	15842
40.0	17497	17126	15019	14596	15139
42.5	16597	15874	13963	13713	14010
45.0	15672	14717	13126	12609	13033
47.5	14707	13559	12216	11781	12402
50.0	13709	12312	11141	11097	11650
52.5	12679	11066	10190	10292	10798
55.0	11609	9969	9346	9521	10010
57.5	10481	8948	8519	8718	9194
60.0	9332	7954	7695	7904	8325
62.5	8166	6980	6883	7036	7448
65.0	7039	6093	6064	6266	6681
67.5	5971	5233	5324	5568	5984
70.0	4940	4400	4644	4909	5320
72.5	3982	3666	4005	4273	4647
75.0	3100	2992	3386	3678	4021
77.5	2318	2380	2789	3064	3400
80.0	1603	1808	2186	2431	2744
82.5	1009	1275	1580	1802	2070
85.0	521	782	1000	1222	1436
87.5	183	355	567	775	921
90.0	16	133	337	530	638
92.5	17	87	267	439	529
95.0	19	64	216	372	456
97.5	23	51	178	317	391
100.0	27	44	147	269	335
102.5	31	42	122	228	287
105.0	34	44	103	193	244
107.5	36	45	88	164	207
110.0	39	48	78	139	175
112.5	43	51	72	119	148
115.0	46	56	73	105	127
117.5	50	62	73	96	111
120.0	53	69	74	91	99
122.5	57	70	76	90	94
125.0	60	68	78	89	92
127.5	64	69	81	89	91
130.0	67	71	86	89	90
132.5	71	74	92	91	91
135.0	74	77	97	93	93
137.5	78	80	106	97	94
140.0	81	83	100	104	97
142.5	85	86	92	108	104
145.0	88	88	90	117	108
147.5	90	91	91	109	119
150.0	93	93	93	100	110
152.5	95	95	95	97	100
155.0	97	97	97	97	98
157.5	99	99	99	99	100
160.0	101	101	101	101	102
162.5	103	102	103	104	105
165.0	104	104	104	106	108
167.5	106	105	106	107	110
170.0	107	107	107	109	112
172.5	107	107	107	109	113
175.0	108	108	108	110	114
177.5	108	108	109	110	114
180.0	108	108	108	108	108

*MAXIMUM CANDELA VALUE