

LUMINAIRE: CLB2-50LX-N-EDU
Columbia Linear Highbay

TEST #CLB2-50LX-N-EDU

DATE: 3/3/2021

BALLAST:
BALLAST FACTOR: 1.00
LAMP:
FIXTURE LUMENS: 10813
WATTS: 76.16
SHIELDING ANGLE: N/A
SPACING CRITERION: 0° = 1.25 90° = 1.06
LUMINOUS OPENING IN FEET
LENGTH: 1.89
WIDTH: 0.83
HEIGHT: 0.00

TOTAL LUMINAIRE EFFICIENCY = 100.0

TOTAL LUMENS PER WATT = 142

ANSI/IESNA RP-1-2004 COMPLIANCE: NONCOMPLIANT

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$1.69

BASED ON 3000 HRS. AND \$.08 PER KWH

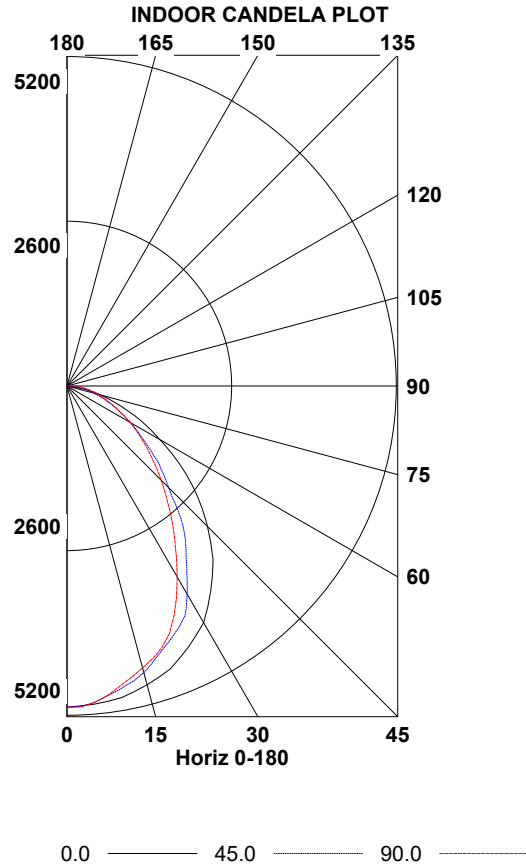
ZONAL LUMENS

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	3738	34.6	34.6
0-40	5839	54.0	54.0
0-60	9197	85.1	85.1
0-90	10810	100.0	100.0
90-120	3	0.0	0.0
90-130	3	0.0	0.0
90-150	3	0.0	0.0
90-180	3	0.0	0.0
0-180	10813	100.0	100.0

AVERAGE LUMINANCE

CANDELA/SQ M

ANGLE	0.0	22.5	45.0	67.5	90.0
0	34776	34776	34776	34776	34776
30	34169	32362	30048	27838	27573
40	32139	29371	25368	22612	22474
45	30433	27077	21998	20633	20411
50	28571	24405	20181	18112	18608
55	26170	21743	17485	16873	17123
60	23263	19164	15998	15244	15817
65	20770	16838	14275	14135	14319
70	17293	14574	12958	12707	13475
75	14863	12575	11658	12146	13299
80	10243	9994	11168	12712	14219
85	0	1421	6525	17071	18942



COEFFICIENTS OF UTILIZATION (%)

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%

RC	EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%																	
	80%				70%				50%				30%				10%	
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	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
R	4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57
C	5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	49
R	6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45
	7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41
	8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37
	9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33
	10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31

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	5068	5068	5068	5068	5068
2.5	5054	5060	5061	5064	5072*
5.0	5040	5031	5010	5001	5018
7.5	5017	5001	4930	4895	4923
10.0	4993	4972	4858	4780	4812
12.5	4938	4897	4781	4667	4707
15.0	4883	4793	4683	4573	4610
17.5	4820	4703	4554	4479	4510
20.0	4756	4631	4423	4370	4388
22.5	4649	4523	4310	4236	4227
25.0	4542	4360	4195	4065	3998
27.5	4427	4207	4052	3803	3744
30.0	4313	4084	3792	3514	3480
32.5	4134	3939	3521	3221	3216
35.0	3956	3703	3276	2940	2968
37.5	3772	3469	3070	2726	2732
40.0	3588	3279	2832	2524	2509
42.5	3362	3077	2538	2338	2300
45.0	3136	2790	2267	2126	2103
47.5	2906	2509	2073	1899	1918
50.0	2676	2286	1890	1697	1743
52.5	2432	2064	1666	1540	1582
55.0	2188	1817	1462	1410	1431
57.5	1941	1585	1312	1272	1292
60.0	1695	1396	1166	1111	1153
62.5	1487	1214	1011	974	1013
65.0	1279	1037	879	871	882
67.5	1071	872	766	742	774
70.0	862	726	646	633	672
72.5	711	593	535	553	579
75.0	561	474	440	458	502
77.5	410	361	358	399	429
80.0	259	253	283	322	360
82.5	130	137	213	265	293
85.0	0	18	83	217	241
87.5	0	0	0	60	212
90.0	0	0	0	0	183
92.5	0	0	0	0	0
95.0	0	0	0	0	0
97.5	0	0	0	0	0
100.0	0	0	0	0	0
102.5	0	0	0	0	0
105.0	0	0	0	0	0
107.5	0	0	0	0	0
110.0	0	0	0	0	0
112.5	0	0	0	0	0
115.0	0	0	0	0	0
117.5	0	0	0	0	0
120.0	0	0	0	0	0
122.5	0	0	0	0	0
125.0	0	0	0	0	0
127.5	0	0	0	0	0
130.0	0	0	0	0	0
132.5	0	0	0	0	0
135.0	0	0	0	0	0
137.5	0	0	0	0	0
140.0	0	0	0	0	0
142.5	0	0	0	0	0
145.0	0	0	0	0	0
147.5	0	0	0	0	0
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