

LUMINAIRE: CLB4-40HH-N-EDU
Columbia Linear Highbay

TEST #CLB4-40HH-N-EDU

DATE: 3/3/2021

BALLAST:
BALLAST FACTOR: 1.00
LAMP:
FIXTURE LUMENS: 59469
WATTS: 418.9
SHIELDING ANGLE: N/A
SPACING CRITERION: 0° = 1.21 90° = 1.13
LUMINOUS OPENING IN FEET
LENGTH: 3.59
WIDTH: 1.23
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

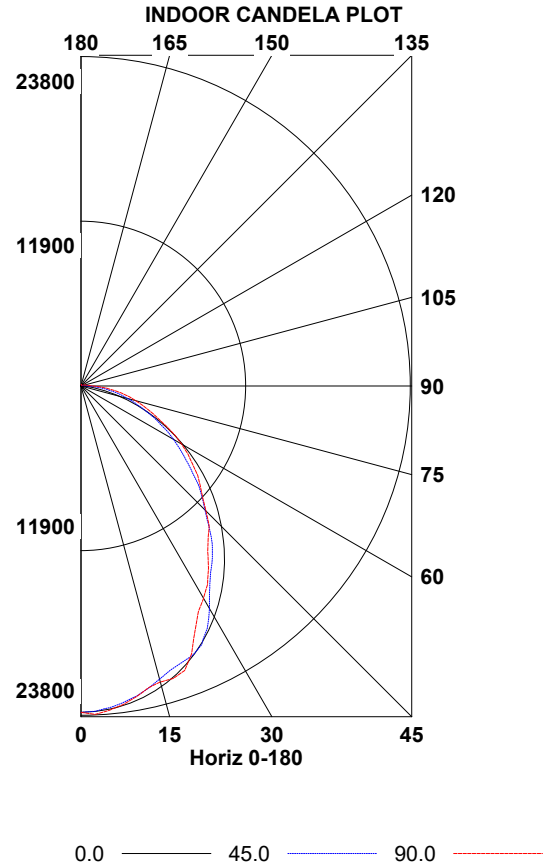
ZONAL LUMENS

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	17759	29.9	29.9
0-40	28290	47.6	47.6
0-60	47167	79.3	79.3
0-90	58602	98.5	98.5
90-120	573	1.0	1.0
90-130	651	1.1	1.1
90-150	783	1.3	1.3
90-180	867	1.5	1.5
0-180	59469	100.0	100.0

AVERAGE LUMINANCE

CANDELA/SQ M

ANGLE	0.0	22.5	45.0	67.5	90.0
0	57479	57479	57479	57479	57479
30	54195	54622	52228	49149	49860
40	51302	51847	46850	44685	45469
45	49476	48122	43676	43512	44035
50	47374	45044	41888	41337	42713
55	44884	40976	39207	40482	41858
60	41814	37769	37715	39407	40950
65	37465	34555	35779	37206	38828
70	32751	31444	33752	35822	37758
75	27454	28804	33064	36004	38443
80	21447	26873	33822	38378	42037
85	14630	26461	37489	46094	52642



COEFFICIENTS OF UTILIZATION (%)

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%

RC	EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%																		
	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	101	101	101	99	
1	109	104	100	96	106	101	98	94	97	94	91	93	90	88	89	87	85	83	
2	99	91	84	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70	
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61	59	
R	4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	57	53	51
C	5	77	64	55	49	74	63	55	48	61	53	48	58	52	47	57	51	47	44
R	6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	51	46	41	39
	7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
	8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	43	38	33	31
	9	58	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
	10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	37	32	27	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	23580	23580	23580	23580	23580
2.5	23528	23542	23524	23495	23736*
5.0	23438	23444	23338	23262	23519
7.5	23287	23246	23079	22968	23223
10.0	23077	22984	22782	22575	22820
12.5	22803	22690	22392	22108	22353
15.0	22474	22365	21927	21823	22138
17.5	22079	21998	21517	21785	22155
20.0	21629	21570	21270	21610	21878
22.5	21116	21073	21063	20846	20902
25.0	20549	20524	20627	19584	19493
27.5	19928	19965	19753	18301	18362
30.0	19254	19406	18555	17461	17714
32.5	18536	18811	17319	16828	17011
35.0	17772	18146	16345	15988	16052
37.5	16968	17321	15594	14948	15044
40.0	16122	16293	14723	14043	14289
42.5	15247	15126	13654	13392	13700
45.0	14352	13959	12669	12622	12773
47.5	13431	12900	11874	11673	11909
50.0	12492	11878	11046	10900	11263
52.5	11530	10738	10087	10274	10641
55.0	10561	9642	9225	9525	9849
57.5	9577	8677	8472	8815	9165
60.0	8577	7747	7736	8083	8399
62.5	7528	6843	6979	7293	7591
65.0	6495	5991	6203	6450	6732
67.5	5528	5205	5440	5699	5968
70.0	4595	4412	4736	5026	5298
72.5	3723	3706	4105	4397	4686
75.0	2915	3058	3511	3823	4082
77.5	2193	2463	2954	3283	3546
80.0	1528	1914	2409	2734	2995
82.5	978	1411	1875	2208	2452
85.0	523	946	1340	1648	1882
87.5	211	531	839	1138	1350
90.0	39	208	484	739	889
92.5	44	122	324	536	646
95.0	48	93	259	431	505
97.5	53	78	215	367	436
100.0	56	69	179	313	373
102.5	58	65	151	267	320
105.0	60	65	128	228	273
107.5	63	67	111	194	233
110.0	65	70	98	165	197
112.5	68	74	89	141	166
115.0	71	78	83	122	139
117.5	73	80	82	107	119
120.0	75	82	82	97	104
122.5	77	84	84	91	93
125.0	80	91	86	88	86
127.5	82	90	89	88	83
130.0	85	88	92	88	82
132.5	87	88	95	90	82
135.0	89	89	96	93	84
137.5	91	91	97	96	87
140.0	93	92	98	98	90
142.5	95	93	105	100	92
145.0	96	95	100	100	94
147.5	97	96	95	102	94
150.0	99	97	95	107	97
152.5	100	98	96	100	102
155.0	101	99	98	96	96
157.5	102	100	99	97	92
160.0	103	102	100	98	94
162.5	104	103	101	99	96
165.0	105	103	102	101	98
167.5	105	104	103	102	100
170.0	105	104	103	103	103
172.5	105	104	104	104	104
175.0	104	104	104	105	105
177.5	104	104	104	105	106
180.0	103	103	103	103	103

*MAXIMUM CANDELA VALUE