

**LUMINAIRE:** CLB4-50MX-W-EDU  
Columbia Linear Highbay

TEST #CLB4-50MX-W-EDU  
DATE: 3/3/2021

**BALLAST:**  
BALLAST FACTOR: 1.00  
**LAMP:**  
FIXTURE LUMENS: 35921  
WATTS: 249  
SHIELDING ANGLE: N/A  
SPACING CRITERION: 0° = 1.28 90° = 1.36  
LUMINOUS OPENING IN FEET  
LENGTH: 3.59  
WIDTH: 0.83  
HEIGHT: 0.00

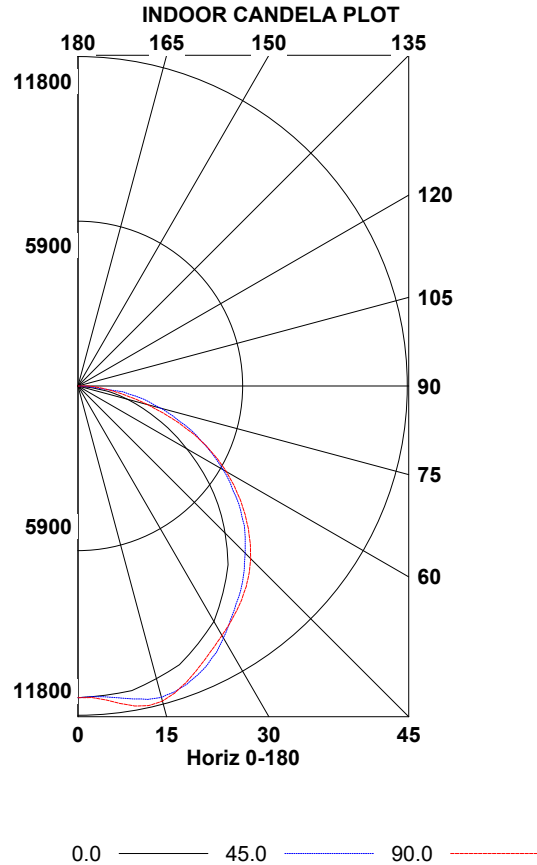
**TOTAL LUMINAIRE EFFICIENCY = 100.0**  
**TOTAL LUMENS PER WATT = 144**  
**ANSI/IESNA RP-1-2004 COMPLIANCE: NONCOMPLIANT**  
**COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$1.67**  
**BASED ON 3000 HRS. AND \$.08 PER KWH**

**ZONAL LUMENS**

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	9250	25.7	25.7
0-40	15320	42.6	42.6
0-60	27689	77.1	77.1
0-90	35915	100.0	100.0
90-120	6	0.0	0.0
90-130	6	0.0	0.0
90-150	6	0.0	0.0
90-180	6	0.0	0.0
0-180	35921	100.0	100.0

**AVERAGE LUMINANCE**

ANGLE	CANDELA/SQ M				
	0.0	22.5	45.0	67.5	90.0
0	40327	40327	40327	40327	40327
30	40617	42821	43451	43146	43044
40	39419	41907	43238	44227	44209
45	38037	40998	43275	44928	44654
50	36707	39862	43717	45108	44760
55	34743	38629	43480	45253	44682
60	32522	37214	43408	45185	44361
65	30366	35797	43115	45157	43296
70	27501	34115	42974	43731	40442
75	25619	33102	42708	41376	36100
80	22202	32187	43887	39855	32829
85	0	4850	26604	44390	34763



**COEFFICIENTS OF UTILIZATION (%)**

RC	RW	EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%																			
		80%					70%					50%					30%		10%		0%
		70%	50%	30%	10%	70%	50%	30%	10%	70%	50%	30%	10%	70%	50%	30%	10%	70%	50%	30%	10%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57			
R	4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	55	51	49			
C	5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44			
R	6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38			
	7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34			
	8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30			
	9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27			
	10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25			

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	11163	11163	11163	11163	11163
2.5	11142	11129	11138	11155	11167
5.0	11121	11118	11179	11248	11285
7.5	11099	11126	11268	11412	11471
10.0	11078	11150	11385	11564	11639
12.5	10964	11125	11499	11659	<b>11720*</b>
15.0	10851	11077	11543	11658	11685
17.5	10737	11028	11488	11554	11533
20.0	10623	10974	11375	11365	11306
22.5	10402	10869	11204	11131	11046
25.0	10180	10685	10994	10879	10788
27.5	9959	10484	10751	10602	10544
30.0	9737	10266	10417	10344	10319
32.5	9393	10005	10090	10100	10099
35.0	9048	9639	9773	9863	9875
37.5	8704	9265	9479	9625	9640
40.0	8359	8887	9169	9379	9375
42.5	7902	8497	8818	9117	9079
45.0	7445	8025	8471	8794	8741
47.5	6989	7557	8126	8417	8369
50.0	6532	7093	7779	8026	7964
52.5	6024	6629	7343	7611	7539
55.0	5516	6133	6904	7185	7095
57.5	5009	5641	6463	6736	6630
60.0	4501	5151	6008	6254	6140
62.5	4027	4666	5524	5770	5618
65.0	3553	4188	5044	5283	5065
67.5	3078	3709	4569	4721	4469
70.0	2604	3230	4069	4140	3829
72.5	2220	2781	3565	3555	3179
75.0	1835	2372	3060	2964	2586
77.5	1451	1962	2580	2415	2055
80.0	1067	1547	2110	1916	1578
82.5	534	887	1640	1453	1158
85.0	0	117	642	1071	839
87.5	0	0	0	272	616
90.0	0	0	0	0	366
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