

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P826958

Luminaire Tested: **OHB-18HE-N-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826958
REPORT IS A COMBINATION OF REPORTS P826194 AND G3-2310-221-6
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-18HE-N-UNV-L840-CD-UPL24
Description: 18000 LUMEN OHB HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENSAND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

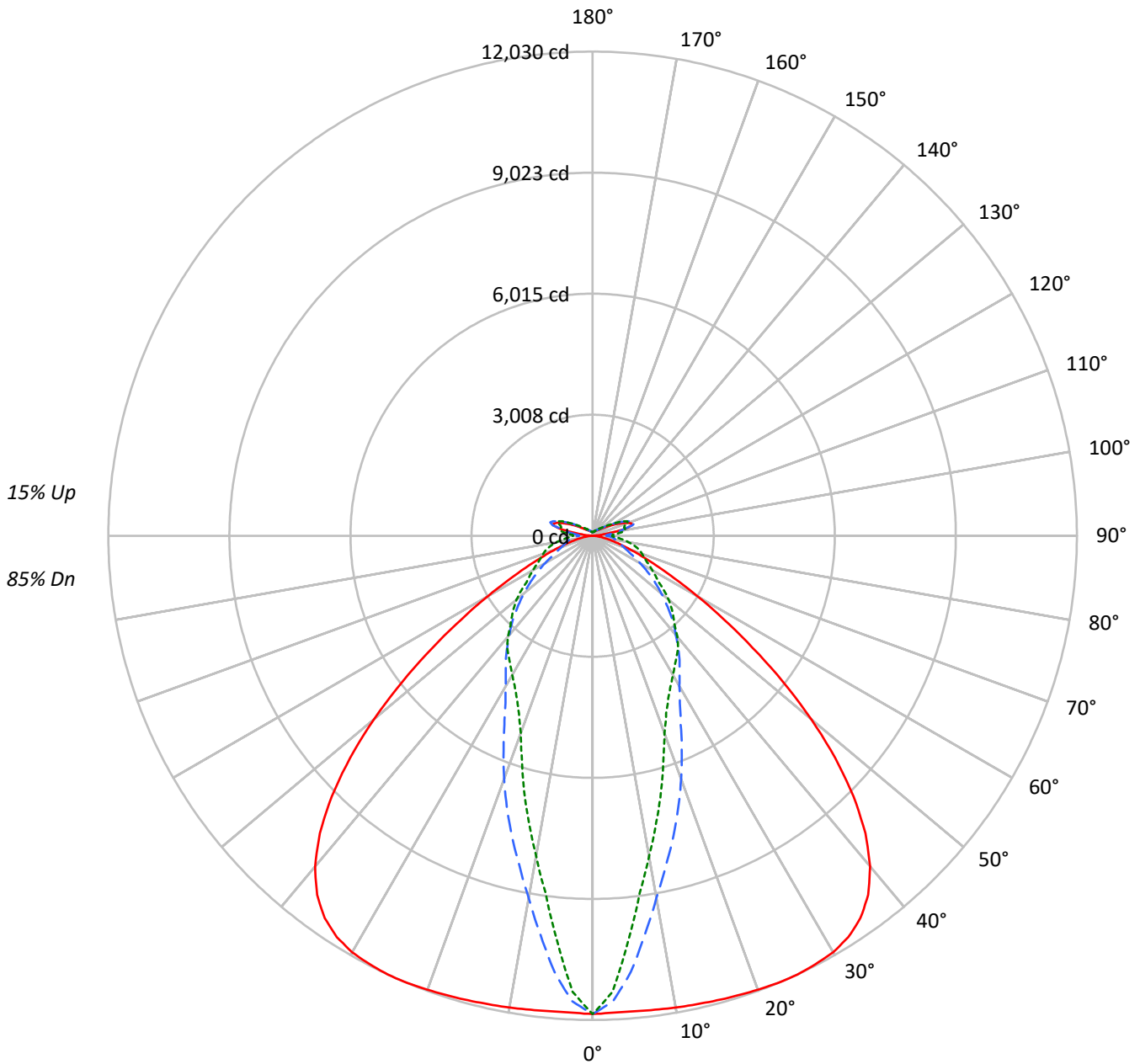
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19959.3 lumens
Efficiency: N/A
Efficacy: 163.1 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85																			
1	106	102	98	94	102	98	94	91	91	88	86	85	82	80	79	77	75	72																			
2	97	90	84	79	94	87	81	77	81	77	73	76	72	69	71	68	65	62																			
3	90	80	73	67	86	78	71	66	73	67	63	68	63	60	64	60	57	54																			
4	83	72	64	58	80	70	63	57	66	59	55	62	56	52	58	54	50	48																			
5	77	65	57	51	74	63	56	50	60	53	48	56	51	46	53	48	45	42																			
6	71	59	51	45	69	58	50	45	54	48	43	51	46	42	49	44	40	38																			
7	67	54	46	41	64	53	45	40	50	44	39	47	42	38	45	40	36	34																			
8	62	50	42	37	60	49	41	36	46	40	35	44	38	34	42	37	33	31																			
9	58	46	39	34	56	45	38	33	43	37	32	41	35	31	39	34	30	29																			
10	55	43	36	31	53	42	35	30	40	34	30	38	33	29	36	31	28	26																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39697	39697	39697
5°	39425	36058	33652
10°	39675	30295	27016
15°	40250	25843	22201
20°	41169	21793	17979
25°	42363	17988	15774
30°	43575	15451	14674
35°	44204	14037	14002
40°	43145	12635	13306
45°	39379	11374	12342
50°	32918	10004	11609
55°	24738	8716	10357
60°	17100	7426	9947
65°	11299	6344	9778
70°	7531	5889	10315
75°	5039	5981	11110
80°	3263	6464	11588
85°	1679	7735	12466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1000.3	5.0
10°-20°	2353.3	11.8
20°-30°	2949.8	14.8
30°-40°	3130.1	15.7
40°-50°	2830.1	14.2
50°-60°	2052.0	10.3
60°-70°	1287.7	6.5
70°-80°	852.2	4.3
80°-90°	497.1	2.5
90°-100°	469.7	2.4
100°-110°	969.1	4.9
110°-120°	791.8	4.0
120°-130°	380.3	1.9
130°-140°	188.3	0.9
140°-150°	108.4	0.5
150°-160°	61.4	0.3
160°-170°	29.0	0.1
170°-180°	8.8	0.0
0°-30°	6303.4	31.6
0°-40°	9433.5	47.3
0°-60°	14315.5	71.7
0°-90°	16952.5	84.9
90°-120°	2230.5	11.2
90°-150°	2907.5	14.6
90°-180°	3007.0	15.1
0°-180°	19959.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11884	11884	11884	11884	11884	
5°	11860	11556	10877	10373	10111	###
15°	11950	9740	7736	6880	6568	3389
25°	12030	7531	5180	4598	4452	5557
35°	11599	5007	3760	3642	3641	7210
45°	9169	3171	2725	2790	2838	6985
55°	4854	1966	1778	1928	1997	4386
65°	1736	1140	1029	1319	1466	1807
75°	536	614	691	1073	1138	598
85°	94	254	506	704	646	113
90°	5	140	340	475	485	10
95°	58	186	430	579	624	169
105°	1012	1042	1032	850	808	961
115°	704	734	826	855	853	710
125°	352	374	428	443	439	329
135°	211	218	239	257	259	167
145°	159	164	169	179	179	100
155°	130	135	138	140	138	59
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11883.6	11883.6	11883.6	11883.6	11883.6
2.5°	11858.7	11790.9	11579.4	11450.4	11341.9
5°	11859.9	11555.6	10877.0	10372.6	10111.3
7.5°	11876.8	11200.5	9977.8	9241.5	8954.3
10°	11902.8	10760.5	9138.6	8353.7	8085.6
12.5°	11922.1	10265.1	8400.1	7593.7	7299.6
15°	11950.3	9740.3	7736.2	6880.0	6567.8
17.5°	11976.4	9246.1	7080.2	6185.5	5838.3
20°	12002.4	8713.4	6424.2	5502.4	5216.3
22.5°	12027.2	8151.2	5784.0	4972.0	4776.3
25°	12029.5	7531.4	5180.1	4597.6	4451.7
27.5°	12000.1	6889.0	4690.3	4284.3	4193.8
30°	11949.2	6265.8	4310.3	4058.1	3993.6
32.5°	11822.5	5630.2	4016.2	3839.8	3802.5
35°	11598.6	5007.0	3759.5	3641.9	3640.7
37.5°	11245.7	4453.9	3481.3	3460.9	3485.8
40°	10724.3	3969.9	3217.7	3272.0	3272.0
42.5°	10028.7	3549.1	2979.1	3034.5	3019.8
45°	9169.2	3171.4	2724.6	2790.2	2837.7
47.5°	8172.7	2838.9	2464.5	2591.2	2656.8
50°	7089.2	2522.2	2227.0	2388.7	2463.4
52.5°	5953.7	2229.2	1995.1	2180.6	2240.5
55°	4854.3	1965.7	1778.0	1928.4	1997.4
57.5°	3859.0	1714.6	1565.3	1707.8	1850.3
60°	3002.9	1498.6	1365.1	1568.7	1711.2
62.5°	2293.7	1306.3	1177.4	1438.7	1581.2
65°	1736.1	1140.1	1029.2	1318.8	1465.8
67.5°	1308.6	996.4	913.9	1231.7	1375.3
70°	982.9	857.3	821.1	1177.4	1306.3
72.5°	726.1	729.5	747.6	1129.9	1228.3
75°	536.1	614.1	691.1	1073.3	1137.8
77.5°	383.4	509.0	640.2	1005.5	1028.1
80°	265.8	415.1	587.0	916.1	896.9
82.5°	166.3	332.5	539.5	817.7	764.6
85°	93.9	254.5	505.6	703.5	645.8
87.5°	41.8	190.0	442.2	548.5	512.4
90°	5.0	140.3	339.9	474.8	485.2
92.5°	19.3	133.2	342.3	479.8	504.1
95°	57.5	185.6	429.9	578.6	624.4
97.5°	274.7	356.6	555.0	704.7	751.3
100°	558.8	644.8	695.8	799.7	820.0
102.5°	860.9	902.3	822.7	826.6	827.6
105°	1012.0	1041.8	1031.7	849.8	807.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	819.3	858.5	945.4	959.7	933.4
115°	704.4	734.1	825.7	855.3	852.7
117.5°	605.6	623.5	707.8	735.1	737.2
120°	503.6	528.1	605.0	623.8	617.8
122.5°	424.6	445.6	508.2	525.4	518.3
125°	351.6	374.1	427.5	443.4	439.3
127.5°	298.4	313.7	361.0	377.9	375.7
130°	261.4	271.7	308.8	325.7	326.7
132.5°	232.3	241.6	268.9	288.8	287.8
135°	211.3	217.6	239.3	257.1	259.1
137.5°	194.3	200.7	215.8	233.5	233.5
140°	179.3	185.6	197.4	212.9	213.9
142.5°	167.4	172.6	181.1	194.4	194.4
145°	158.6	163.7	169.0	179.0	178.9
147.5°	149.6	155.8	159.0	166.6	165.5
150°	142.6	148.0	151.0	155.4	155.2
152.5°	135.6	141.0	144.0	147.2	146.1
155°	129.6	135.0	138.1	140.2	138.0
157.5°	111.0	113.0	115.0	116.0	116.0
160°	107.0	108.0	110.0	111.0	111.0
162.5°	103.0	104.0	105.0	106.0	106.0
165°	100.0	101.0	102.0	102.0	102.0
167.5°	97.0	97.0	98.0	99.0	99.0
170°	94.0	95.0	95.0	96.0	96.0
172.5°	92.0	93.0	93.0	93.0	94.0
175°	90.0	91.0	91.0	92.0	92.0
177.5°	90.0	90.0	90.0	90.0	90.0
180°	90.0	90.0	90.0	90.0	90.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	1016.0	1057.4	1104.9	951.8	837.7
110°	939.2	979.8	1050.2	1015.1	925.0



(END OF REPORT)