

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: P827091

Luminaire Tested: **OHBL-18HE-A-UNV-L840-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827091
REPORT IS A COMBINATION OF REPORTS P826059 AND G3-2310-221-12
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-A-UNV-L840-CD-UPL12
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

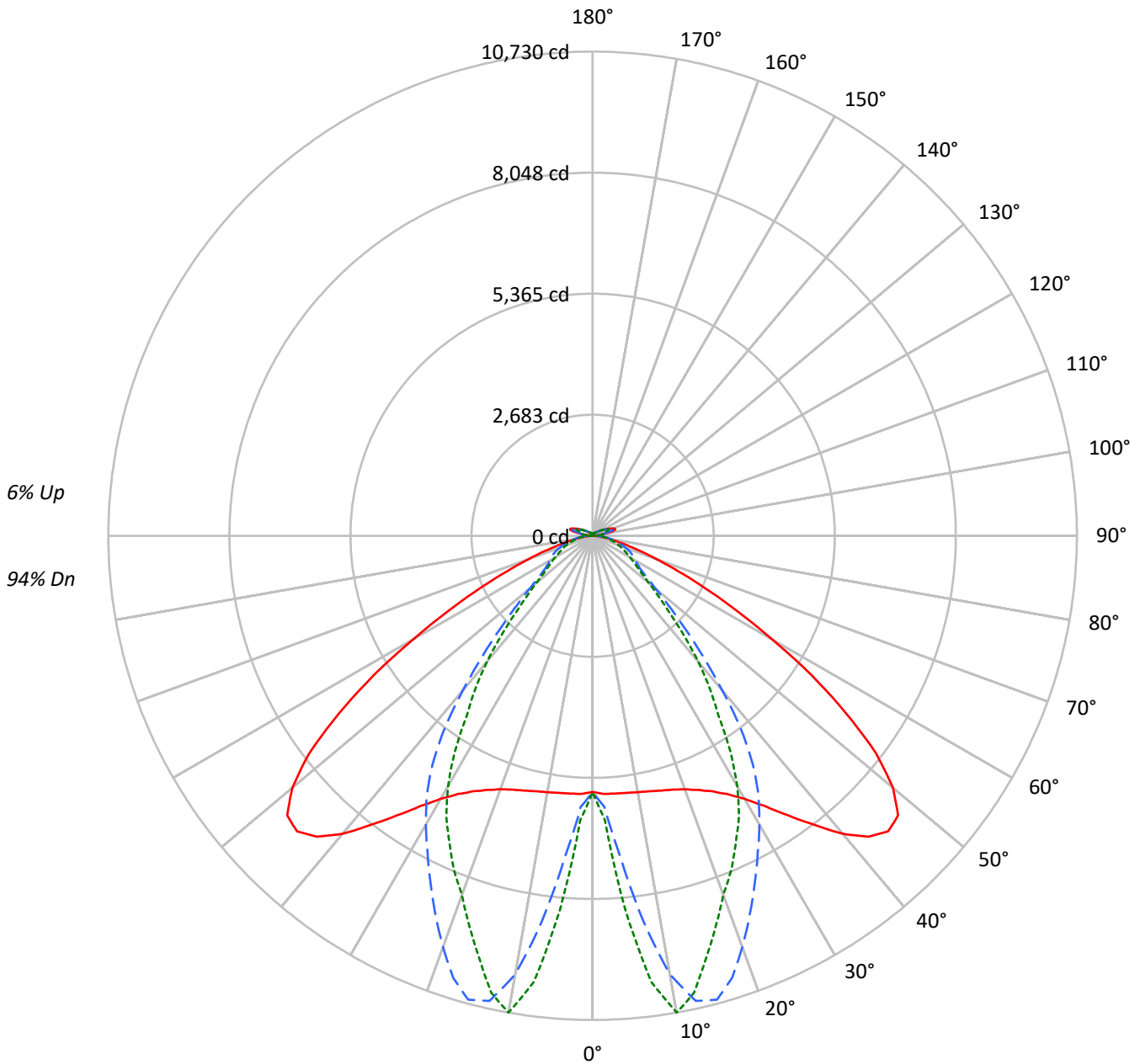
Lumens per Lamp: N/A
Luminaire Lumens: 19465.3 lumens
Efficiency: N/A
Efficacy: 174.7 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 111.4
Input Voltage (V): NR
Input Current (A_{in}): 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94																			
1	109	105	102	98	106	102	99	96	97	94	92	92	90	88	87	86	84	82																			
2	101	94	88	83	98	92	86	82	87	83	79	83	79	76	79	76	74	71																			
3	93	84	77	72	90	82	76	71	78	73	69	75	71	67	72	68	65	63																			
4	86	76	68	63	84	74	67	62	71	65	60	68	63	59	65	61	57	55																			
5	80	69	61	55	78	67	60	55	65	58	53	62	57	52	60	55	51	49																			
6	75	63	55	49	72	62	54	49	59	53	48	57	51	47	55	50	46	44																			
7	70	57	50	44	68	56	49	44	54	48	43	52	47	42	51	46	42	40																			
8	65	53	45	40	63	52	45	40	50	44	39	48	43	38	47	42	38	36																			
9	61	49	41	36	59	48	41	36	46	40	36	45	39	35	44	38	35	33																			
10	57	45	38	33	56	45	38	33	43	37	33	42	36	32	41	35	32	30																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9698	9698	9698
5°	9747	12197	14216
10°	9834	16816	18465
15°	10068	18319	16947
20°	10485	16997	15146
25°	11249	15286	13854
30°	12544	13764	12319
35°	14746	12047	9817
40°	17731	9174	7813
45°	20339	6250	5561
50°	20620	4287	4113
55°	17848	3374	3360
60°	13332	3157	3023
65°	9138	3167	2863
70°	5843	3055	2773
75°	3514	2827	2653
80°	2067	2485	2737
85°	995	2134	2538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.2	3.8
10°-20°	2616.2	13.4
20°-30°	3855.2	19.8
30°-40°	4051.2	20.8
40°-50°	3099.9	15.9
50°-60°	1871.8	9.6
60°-70°	1142.2	5.9
70°-80°	623.5	3.2
80°-90°	222.0	1.1
90°-100°	119.0	0.6
100°-110°	413.9	2.1
110°-120°	355.5	1.8
120°-130°	170.4	0.9
130°-140°	85.2	0.4
140°-150°	49.6	0.3
150°-160°	28.9	0.1
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	7212.6	37.1
0°-40°	11263.8	57.9
0°-60°	16235.5	83.4
0°-90°	18223.1	93.6
90°-120°	888.4	4.6
90°-150°	1193.7	6.1
90°-180°	1242.0	6.4
0°-180°	19465.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5678	5678	5678	5678	5678	
5°	5735	6153	7177	8014	8324	548
15°	5847	9106	10643	9931	9698	1662
25°	6248	10568	8497	7692	7502	2920
35°	7568	8463	6190	5155	4853	4801
45°	9262	4829	2851	2509	2404	6998
55°	6850	1638	1298	1203	1199	6053
65°	2746	1037	955	817	776	2814
75°	731	645	591	488	468	841
85°	109	200	236	215	195	134
90°	3	18	24	31	35	8
95°	25	58	86	116	134	82
105°	517	511	436	309	284	489
115°	360	360	361	358	352	360
125°	176	183	187	185	186	164
135°	102	105	109	110	110	81
145°	75	77	78	79	80	48
155°	60	61	62	63	63	28
165°	52	52	53	53	53	15
175°	47	47	47	47	47	5
180°	46	46	46	46	46	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5677.8	5677.8	5677.8	5677.8	5677.8
2.5°	5724.4	5782.8	6013.1	6252.2	6310.4
5°	5734.8	6152.6	7177.4	8014.2	8323.5
7.5°	5747.0	6751.8	8620.0	9644.5	9972.5
10°	5770.1	7509.5	9870.0	10605.5	10729.5
12.5°	5798.9	8312.3	10557.8	10531.0	10374.7
15°	5846.6	9106.2	10642.6	9931.1	9697.6
17.5°	5896.7	9778.0	10273.0	9278.1	9074.8
20°	5978.3	10276.6	9698.1	8697.7	8466.6
22.5°	6095.9	10550.8	9095.3	8172.7	8022.0
25°	6247.6	10568.5	8496.6	7692.4	7502.5
27.5°	6450.9	10323.4	7922.7	7221.7	7021.1
30°	6727.5	9853.9	7389.5	6654.2	6405.4
32.5°	7103.2	9178.3	6839.7	5969.0	5690.0
35°	7567.7	8463.4	6189.9	5154.9	4853.4
37.5°	8074.6	7669.7	5401.3	4433.9	4258.4
40°	8620.0	6851.9	4466.6	3759.3	3633.6
42.5°	9045.6	5962.7	3598.3	3124.0	2990.4
45°	9262.5	4829.3	2851.3	2509.0	2403.6
47.5°	9178.0	3748.8	2260.4	1993.6	1961.9
50°	8685.0	2768.1	1809.5	1642.2	1629.1
52.5°	7914.2	2063.2	1494.7	1391.2	1368.6
55°	6849.9	1637.6	1298.0	1203.0	1199.4
57.5°	5751.1	1391.2	1178.2	1104.6	1079.1
60°	4579.0	1240.5	1087.4	1004.3	952.5
62.5°	3589.3	1135.1	1020.6	907.9	859.5
65°	2746.2	1036.7	954.9	817.1	775.5
67.5°	2047.1	943.0	874.6	721.7	697.3
70°	1491.5	846.8	783.0	641.8	622.6
72.5°	1063.0	750.9	691.5	566.8	545.6
75°	731.2	644.7	591.4	487.9	468.2
77.5°	493.3	536.4	492.8	416.6	408.3
80°	329.4	425.4	398.6	353.0	347.9
82.5°	199.9	308.7	314.6	287.1	273.2
85°	108.8	199.9	235.7	214.7	194.8
87.5°	42.6	110.8	162.4	145.8	137.3
90°	3.0	18.0	24.0	31.0	35.0
92.5°	9.0	23.0	38.0	54.0	59.0
95°	25.0	58.0	86.0	116.0	134.0
97.5°	135.0	147.0	166.0	196.0	206.0
100°	276.0	297.0	247.0	258.0	263.0
102.5°	439.0	433.0	316.0	286.0	281.0
105°	517.0	511.0	436.0	309.0	284.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	418.0	421.0	418.0	402.0	385.0
115°	360.0	360.0	361.0	358.0	352.0
117.5°	302.0	306.0	309.0	306.0	304.0
120°	253.0	259.0	261.0	257.0	257.0
122.5°	213.0	218.0	221.0	218.0	219.0
125°	176.0	183.0	187.0	185.0	186.0
127.5°	147.0	153.0	160.0	159.0	159.0
130°	128.0	132.0	137.0	138.0	138.0
132.5°	114.0	117.0	121.0	122.0	123.0
135°	102.0	105.0	109.0	110.0	110.0
137.5°	94.0	96.0	99.0	100.0	101.0
140°	86.0	89.0	91.0	92.0	92.0
142.5°	80.0	82.0	84.0	85.0	86.0
145°	75.0	77.0	78.0	79.0	80.0
147.5°	70.0	72.0	74.0	74.0	75.0
150°	67.0	68.0	69.0	70.0	70.0
152.5°	63.0	64.0	65.0	66.0	66.0
155°	60.0	61.0	62.0	63.0	63.0
157.5°	57.0	59.0	59.0	60.0	60.0
160°	55.0	56.0	57.0	57.0	57.0
162.5°	53.0	54.0	54.0	55.0	55.0
165°	52.0	52.0	53.0	53.0	53.0
167.5°	50.0	50.0	51.0	51.0	51.0
170°	49.0	49.0	49.0	50.0	50.0
172.5°	48.0	48.0	48.0	48.0	48.0
175°	47.0	47.0	47.0	47.0	47.0
177.5°	46.0	47.0	47.0	47.0	47.0
180°	46.0	46.0	46.0	46.0	46.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	520.0	522.0	481.0	373.0	309.0
110°	476.0	483.0	461.0	420.0	369.0



(END OF REPORT)