

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: P827092

Luminaire Tested: **OHBL-18HE-A-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827092
REPORT IS A COMBINATION OF REPORTS P826155 AND G3-2310-221-8
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-UPL18
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

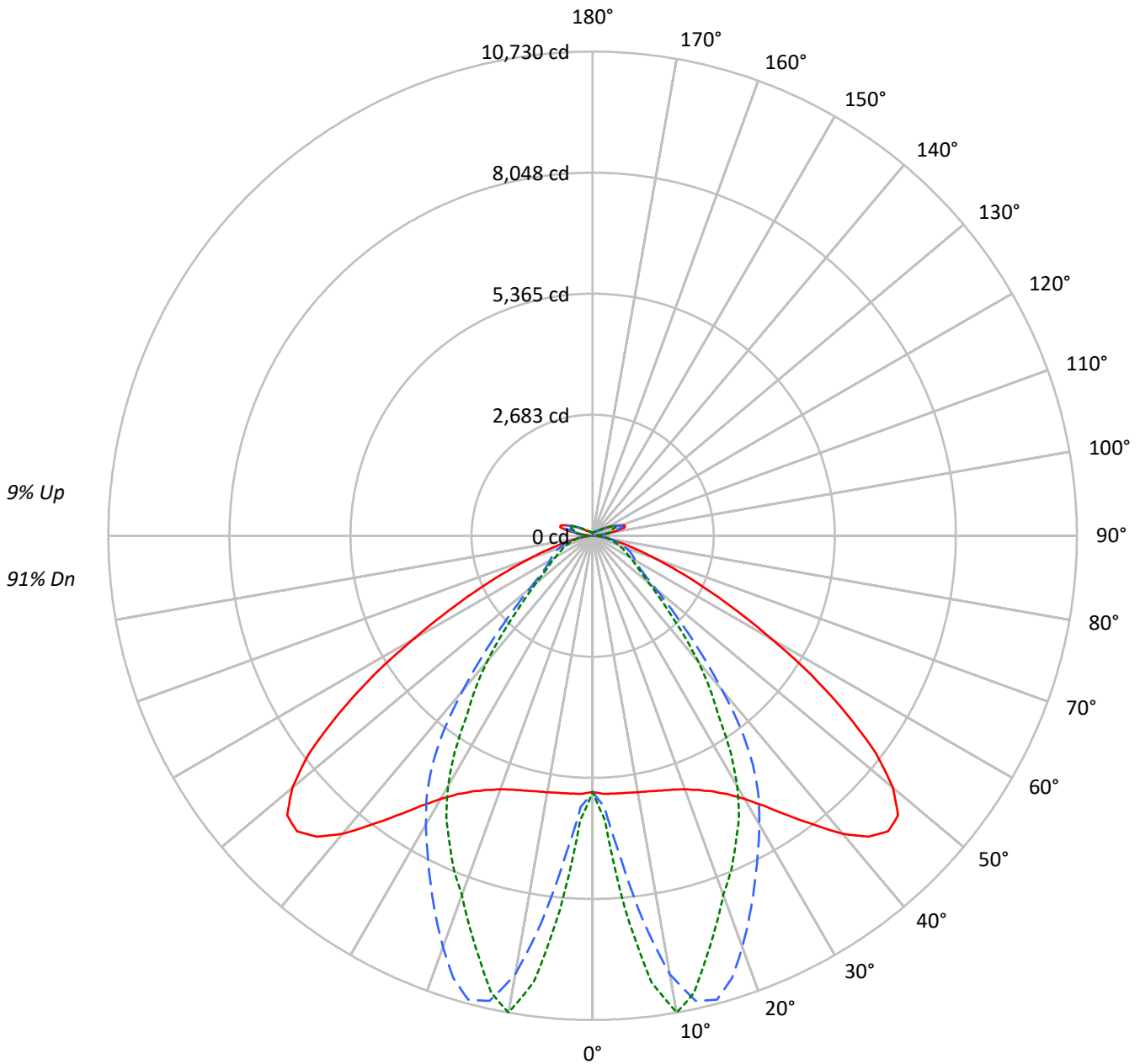
Lumens per Lamp: N/A
Luminaire Lumens: 20009.9 lumens
Efficiency: N/A
Efficacy: 173.5 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 115.3
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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91																			
1	108	104	101	98	105	101	98	95	96	93	91	90	88	86	85	84	82	80																			
2	100	93	88	83	97	91	85	81	86	82	78	81	78	75	77	74	72	70																			
3	93	84	77	71	90	81	75	70	77	72	68	74	69	65	70	66	63	61																			
4	86	75	68	62	83	74	67	61	70	64	59	67	62	58	64	60	56	54																			
5	80	68	60	55	77	67	59	54	64	57	53	61	56	51	58	54	50	48																			
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	54	49	45	43																			
7	69	57	49	44	67	56	48	43	54	47	42	51	46	41	49	44	41	39																			
8	65	52	45	39	63	51	44	39	49	43	38	47	42	38	46	41	37	35																			
9	61	48	41	36	59	47	40	36	46	39	35	44	38	34	43	37	34	32																			
10	57	45	38	33	55	44	37	32	42	36	32	41	35	31	40	35	31	29																			

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	3.7
10°-20°	2616.2	13.1
20°-30°	3855.2	19.3
30°-40°	4051.2	20.2
40°-50°	3099.9	15.5
50°-60°	1871.8	9.4
60°-70°	1142.2	5.7
70°-80°	623.5	3.1
80°-90°	223.3	1.1
90°-100°	171.2	0.9
100°-110°	594.6	3.0
110°-120°	510.9	2.6
120°-130°	245.3	1.2
130°-140°	122.6	0.6
140°-150°	71.2	0.4
150°-160°	41.5	0.2
160°-170°	21.5	0.1
170°-180°	6.6	0.0
0°-30°	7212.6	36.0
0°-40°	11263.8	56.3
0°-60°	16235.5	81.1
0°-90°	18224.5	91.1
90°-120°	1276.7	6.4
90°-150°	1715.8	8.6
90°-180°	1785.0	8.9
0°-180°	20009.9	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°	4	25	34	45	50	9
95°	38	82	129	167	191	120
105°	741	734	626	441	407	703
115°	513	519	518	512	511	517
125°	250	262	269	268	266	235
135°	148	151	156	158	159	117
145°	108	110	113	114	114	68
155°	86	88	89	90	90	40
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



TEST NUMBER: P827092

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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°	4.0	25.0	34.0	45.0	50.0
92.5°	13.0	33.0	55.0	76.0	84.0
95°	38.0	82.0	129.0	167.0	191.0
97.5°	195.0	213.0	238.0	282.0	298.0
100°	402.0	422.0	354.0	371.0	377.0
102.5°	629.0	628.0	454.0	410.0	404.0
105°	741.0	734.0	626.0	441.0	407.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	602.0	606.0	594.0	578.0	553.0
115°	513.0	519.0	518.0	512.0	511.0
117.5°	437.0	440.0	442.0	440.0	441.0
120°	365.0	372.0	376.0	373.0	371.0
122.5°	305.0	314.0	319.0	316.0	314.0
125°	250.0	262.0	269.0	268.0	266.0
127.5°	212.0	221.0	230.0	229.0	227.0
130°	184.0	191.0	197.0	198.0	199.0
132.5°	165.0	168.0	174.0	175.0	177.0
135°	148.0	151.0	156.0	158.0	159.0
137.5°	135.0	138.0	142.0	144.0	145.0
140°	124.0	127.0	130.0	132.0	133.0
142.5°	115.0	118.0	121.0	122.0	123.0
145°	108.0	110.0	113.0	114.0	114.0
147.5°	101.0	103.0	105.0	107.0	107.0
150°	95.0	97.0	99.0	100.0	101.0
152.5°	91.0	92.0	94.0	95.0	95.0
155°	86.0	88.0	89.0	90.0	90.0
157.5°	83.0	84.0	85.0	86.0	86.0
160°	80.0	80.0	81.0	82.0	82.0
162.5°	77.0	77.0	78.0	79.0	79.0
165°	74.0	75.0	75.0	76.0	76.0
167.5°	72.0	72.0	73.0	73.0	74.0
170°	70.0	70.0	71.0	71.0	71.0
172.5°	68.0	69.0	69.0	69.0	69.0
175°	67.0	67.0	68.0	68.0	68.0
177.5°	66.0	67.0	67.0	67.0	67.0
180°	67.0	67.0	67.0	67.0	67.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	748.0	748.0	690.0	536.0	449.0
110°	685.0	693.0	663.0	603.0	534.0



(END OF REPORT)