

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: P829107

Luminaire Tested: **OHB-18SE-MFL-UNV-L730-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-18SE-MFL-UNV-L730-CD
Description: 18000 LUMEN OHB SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

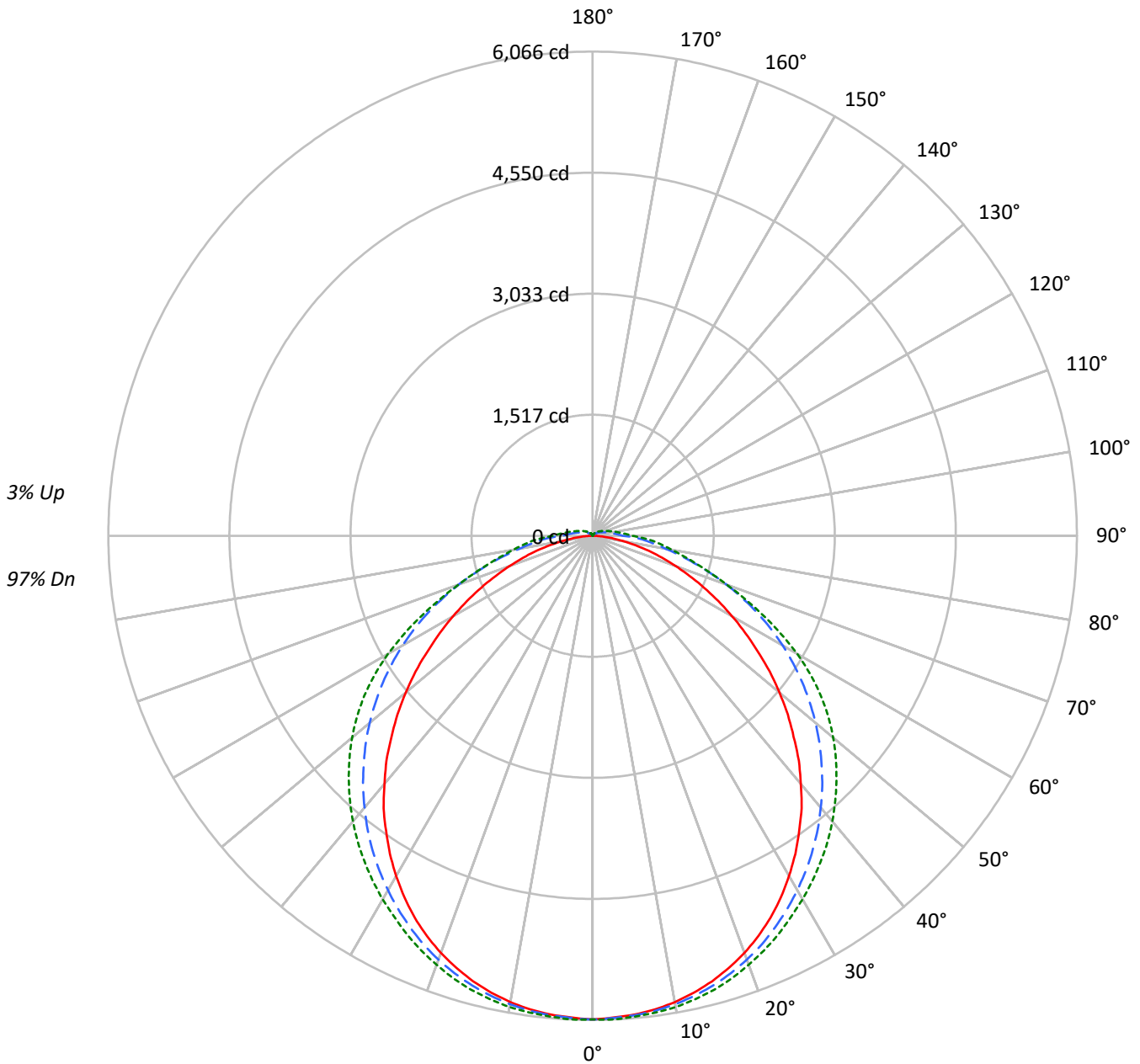
Lumens per Lamp: N/A
Luminaire Lumens: 18137.0 lumens
Efficiency: N/A
Efficacy: 168.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1.93' x H: 0.17')
CIE Type: Direct

Input Watts (W): 107.6
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	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20244	20244	20244
5°	20041	19992	20101
10°	19827	19756	19983
15°	19533	19486	19832
20°	19165	19169	19616
25°	18698	18789	19398
30°	18082	18380	19179
35°	17351	17948	18987
40°	16489	17455	18795
45°	15488	16921	18555
50°	14399	16376	18264
55°	13082	15719	17785
60°	11734	14951	16850
65°	10270	13986	15328
70°	8690	12775	13681
75°	7082	11372	12545
80°	5116	10225	12362
85°	2921	10074	13632



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.2	3.2
10°-20°	1647.4	9.1
20°-30°	2491.4	13.7
30°-40°	2990.9	16.5
40°-50°	3089.1	17.0
50°-60°	2779.3	15.3
60°-70°	2093.6	11.5
70°-80°	1264.2	7.0
80°-90°	618.3	3.4
90°-100°	260.2	1.4
100°-110°	148.6	0.8
110°-120°	87.2	0.5
120°-130°	49.3	0.3
130°-140°	26.0	0.1
140°-150°	12.6	0.1
150°-160°	4.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4713.0	26.0
0°-40°	7703.9	42.5
0°-60°	13572.3	74.8
0°-90°	17548.4	96.8
90°-120°	496.0	2.7
90°-150°	583.9	3.2
90°-180°	589.0	3.2
0°-180°	18137.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6060	6060	6060	6060	6060	
5°	6022	6038	6030	6054	6047	572
15°	5778	5806	5833	5882	5888	1629
25°	5277	5335	5410	5495	5508	2427
35°	4512	4617	4807	4952	4982	2820
45°	3561	3740	4053	4274	4320	2749
55°	2523	2784	3207	3448	3490	2262
65°	1540	1854	2269	2382	2355	1530
75°	725	1041	1314	1348	1335	774
85°	151	399	658	749	762	175
90°	0	156	377	475	494	10
95°	7	105	282	359	372	6
105°	10	61	163	214	222	10
115°	12	34	101	135	141	12
125°	12	16	61	88	92	11
135°	10	13	31	53	59	8
145°	15	13	15	27	31	9
155°	15	16	15	13	15	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6060.1	6060.1	6060.1	6060.1	6060.1
2.5°	6042.4	6057.2	6048.3	6067.6	6066.1
5°	6021.6	6037.9	6030.5	6054.2	6046.8
7.5°	5986.0	6003.8	6002.3	6029.0	6026.0
10°	5934.1	5953.4	5959.3	5994.9	5994.9
12.5°	5862.9	5888.1	5902.9	5945.9	5947.4
15°	5778.4	5806.5	5833.2	5882.2	5888.1
17.5°	5676.0	5711.6	5748.7	5805.0	5812.5
20°	5560.3	5600.4	5650.8	5710.1	5719.0
22.5°	5426.8	5474.3	5539.6	5609.3	5619.7
25°	5277.0	5334.9	5410.5	5495.1	5508.4
27.5°	5106.5	5173.2	5275.6	5370.5	5382.3
30°	4921.1	4999.7	5127.2	5240.0	5259.2
32.5°	4725.3	4815.8	4973.0	5099.1	5125.8
35°	4511.7	4617.0	4806.9	4952.2	4981.9
37.5°	4301.1	4416.8	4631.9	4798.0	4833.6
40°	4054.9	4198.8	4445.0	4628.9	4671.9
42.5°	3823.6	3979.3	4258.1	4458.3	4499.9
45°	3561.0	3740.5	4053.4	4274.4	4320.4
47.5°	3314.8	3509.1	3856.2	4084.6	4132.1
50°	3055.3	3268.9	3645.6	3884.4	3933.3
52.5°	2795.7	3025.6	3427.6	3675.2	3721.2
55°	2522.8	2783.9	3206.6	3448.3	3489.9
57.5°	2269.2	2545.1	2979.6	3209.5	3234.7
60°	2018.6	2304.8	2748.3	2950.0	2958.9
62.5°	1773.8	2074.9	2511.0	2671.2	2659.3
65°	1539.5	1853.9	2269.2	2381.9	2355.2
67.5°	1314.1	1638.9	2021.5	2094.2	2058.6
70°	1100.5	1429.8	1781.3	1818.3	1785.7
72.5°	912.1	1231.0	1538.0	1569.2	1545.4
75°	725.3	1041.2	1314.1	1348.2	1334.8
77.5°	550.2	857.3	1107.9	1152.4	1155.4
80°	396.0	689.7	928.5	998.2	1007.1
82.5°	261.0	535.4	778.7	867.6	881.0
85°	151.3	399.0	658.5	749.0	762.3
87.5°	65.3	287.7	529.5	611.1	627.4
90°	0.0	155.7	376.7	474.6	493.9
92.5°	4.4	129.0	323.3	412.3	428.6
95°	7.4	105.3	281.8	358.9	372.3
97.5°	8.9	89.0	244.7	312.9	326.3
100°	8.9	77.1	212.1	274.4	286.2
102.5°	8.9	68.2	185.4	240.3	250.7
105°	10.4	60.8	163.1	213.6	222.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.9	40.0	112.7	151.3	157.2
115°	11.9	34.1	100.9	135.0	140.9
117.5°	13.3	29.7	89.0	121.6	126.1
120°	13.3	25.2	78.6	108.3	114.2
122.5°	13.3	20.8	69.7	97.9	102.3
125°	11.9	16.3	60.8	87.5	92.0
127.5°	10.4	13.3	51.9	78.6	83.1
130°	10.4	11.9	44.5	69.7	74.2
132.5°	10.4	13.3	37.1	60.8	66.7
135°	10.4	13.3	31.1	53.4	59.3
137.5°	10.4	13.3	25.2	46.0	51.9
140°	11.9	13.3	20.8	38.6	44.5
142.5°	13.3	13.3	16.3	32.6	37.1
145°	14.8	13.3	14.8	26.7	31.1
147.5°	14.8	14.8	14.8	20.8	25.2
150°	14.8	16.3	14.8	16.3	20.8
152.5°	14.8	16.3	14.8	13.3	16.3
155°	14.8	16.3	14.8	13.3	14.8
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	10.4	53.4	143.9	189.8	197.3
110°	10.4	47.5	127.6	169.1	176.5



(END OF REPORT)