

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: P829070

Luminaire Tested: **OHB-18HE-NL-UNV-L950-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-18HE-NL-UNV-L950-CD
Description: 18000 LUMEN OHB HE LED LUMINAIRE WITH 90CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

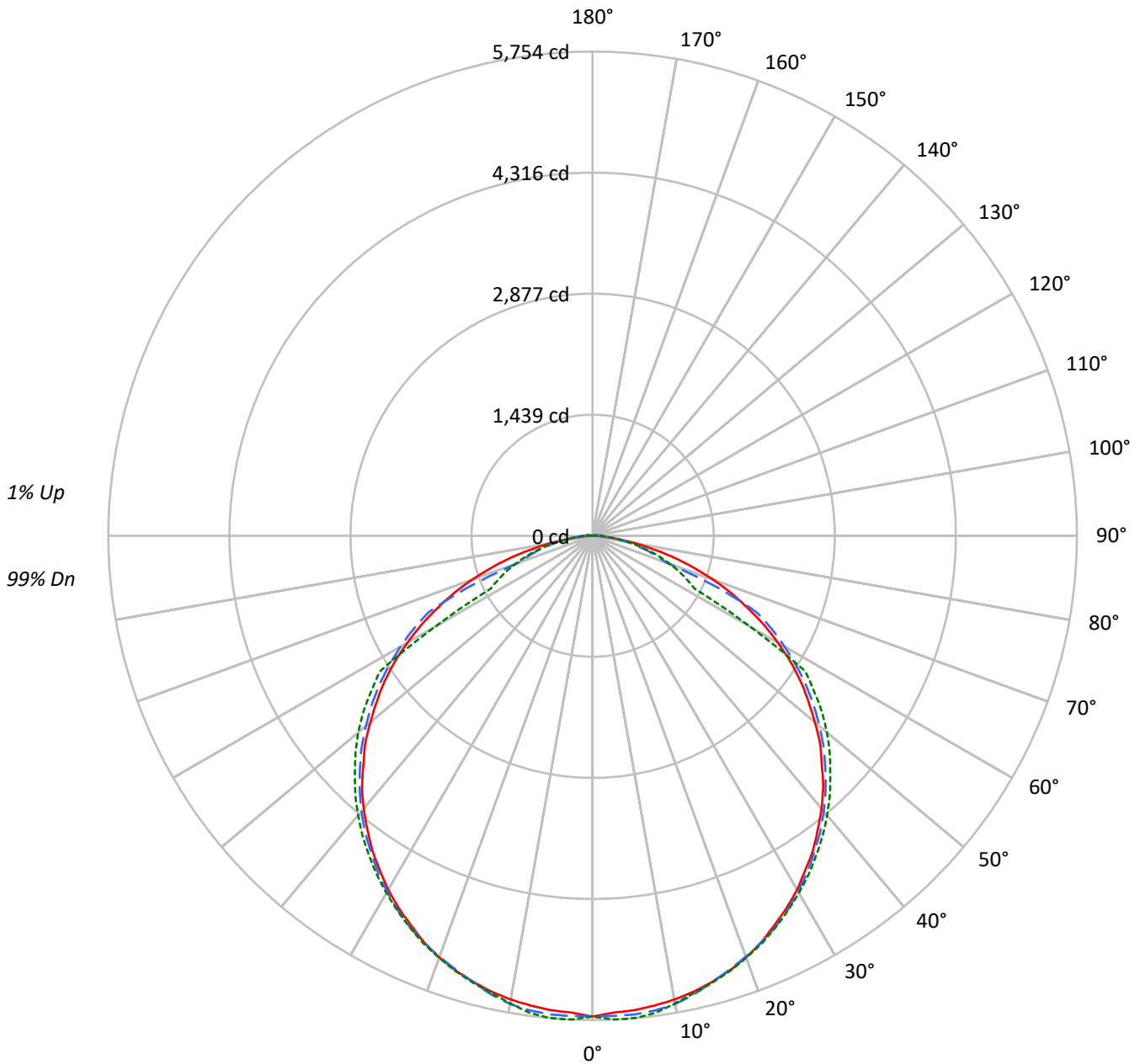
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16038.0 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 1.93' x H: 0')
CIE Type: Direct

Input Watts (W): 105
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19082	19082	19082
5°	18977	19148	19293
10°	18982	19162	19139
15°	18979	18975	19017
20°	18953	18924	18970
25°	18823	18919	18934
30°	18736	18833	18907
35°	18615	18717	18893
40°	18454	18629	18904
45°	18188	18463	18865
50°	17914	18279	18883
55°	17571	18026	18675
60°	16983	17585	14539
65°	16067	17001	9785
70°	14861	9026	9496
75°	12962	8577	9068
80°	9969	7868	8311
85°	5032	7953	8145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.7	3.4
10°-20°	1553.9	9.7
20°-30°	2364.3	14.7
30°-40°	2874.7	17.9
40°-50°	3022.6	18.8
50°-60°	2760.0	17.2
60°-70°	1769.3	11.0
70°-80°	835.8	5.2
80°-90°	231.8	1.4
90°-100°	61.4	0.4
100°-110°	16.8	0.1
110°-120°	4.7	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4460.9	27.8
0°-40°	7335.6	45.7
0°-60°	13118.3	81.8
0°-90°	15955.2	99.5
90°-120°	82.8	0.5
90°-150°	82.8	0.5
90°-180°	83.0	0.5
0°-180°	16038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5712	5712	5712	5712	5712	
5°	5659	5681	5710	5741	5753	538
15°	5488	5529	5487	5495	5499	1549
25°	5107	5115	5133	5141	5137	2356
35°	4565	4538	4590	4646	4633	2853
45°	3850	3843	3908	4000	3993	2976
55°	3017	2994	3095	3198	3206	2691
65°	2033	2033	2151	1234	1238	2015
75°	1004	1023	664	700	703	1059
85°	131	166	208	224	212	194
90°	0	56	92	109	107	6
95°	3	29	66	89	89	2
105°	5	11	16	16	15	5
115°	5	7	10	7	1	4
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: OHB-18HE-NL-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5712.3	5712.3	5712.3	5712.3	5712.3
2.5°	5672.2	5691.3	5712.3	5739.4	5754.3
5°	5659.2	5681.2	5710.3	5741.4	5753.4
7.5°	5631.1	5662.1	5690.2	5712.3	5719.3
10°	5596.0	5633.2	5649.2	5647.2	5642.2
12.5°	5548.9	5588.1	5583.1	5559.9	5564.0
15°	5487.8	5528.8	5486.8	5494.8	5498.8
17.5°	5415.6	5455.7	5406.6	5422.6	5423.7
20°	5331.5	5361.5	5323.4	5336.4	5336.4
22.5°	5230.2	5251.2	5235.2	5244.2	5246.2
25°	5106.9	5114.9	5132.9	5141.0	5136.9
27.5°	4988.7	4978.6	5013.7	5032.7	5022.7
30°	4857.3	4841.3	4882.4	4913.5	4901.5
32.5°	4706.9	4697.0	4744.1	4781.1	4774.1
35°	4564.6	4537.6	4589.7	4645.8	4632.8
37.5°	4396.2	4380.2	4439.3	4498.5	4491.5
40°	4231.8	4204.8	4272.0	4342.1	4335.1
42.5°	4055.5	4023.3	4096.5	4180.8	4172.7
45°	3849.9	3842.9	3908.1	4000.3	3993.3
47.5°	3667.6	3632.5	3723.6	3812.9	3820.9
50°	3447.0	3434.0	3517.2	3625.5	3633.4
52.5°	3231.6	3222.5	3309.7	3419.0	3433.0
55°	3017.0	2994.0	3095.2	3198.5	3206.5
57.5°	2787.6	2763.5	2866.7	2979.0	2996.0
60°	2541.9	2518.9	2632.1	2736.4	2176.1
62.5°	2296.3	2280.3	2398.6	1699.0	1369.3
65°	2032.7	2032.7	2150.9	1233.9	1237.9
67.5°	1786.2	1770.2	1603.8	1108.5	1108.5
70°	1521.5	1527.6	924.1	971.3	972.3
72.5°	1255.9	1278.0	797.9	835.9	837.9
75°	1004.3	1023.4	664.5	699.6	702.6
77.5°	737.7	567.3	534.2	561.4	562.3
80°	518.2	357.8	409.0	435.0	432.0
82.5°	302.7	250.5	299.7	318.8	317.7
85°	131.3	166.4	207.5	224.5	212.5
87.5°	42.0	103.3	129.3	139.3	138.3
90°	0.0	56.1	92.2	109.2	107.3
92.5°	0.0	44.0	80.2	100.3	101.2
95°	3.0	29.1	66.2	89.2	89.2
97.5°	2.0	21.0	47.1	70.1	72.2
100°	2.0	17.0	31.1	50.1	51.1
102.5°	5.0	14.0	19.0	32.0	33.1
105°	5.0	11.0	16.0	16.0	15.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.0	8.1	11.0	8.1	1.0
115°	5.0	7.0	10.0	7.0	1.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	5.0	10.0	14.0	9.0	3.0
110°	6.0	9.0	12.0	8.1	1.0



(END OF REPORT)