

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: P829050

Luminaire Tested: **OHB-18HE-N-UNV-L750-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-18HE-N-UNV-L750-CD
Description: 18000 LUMEN OHB HE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

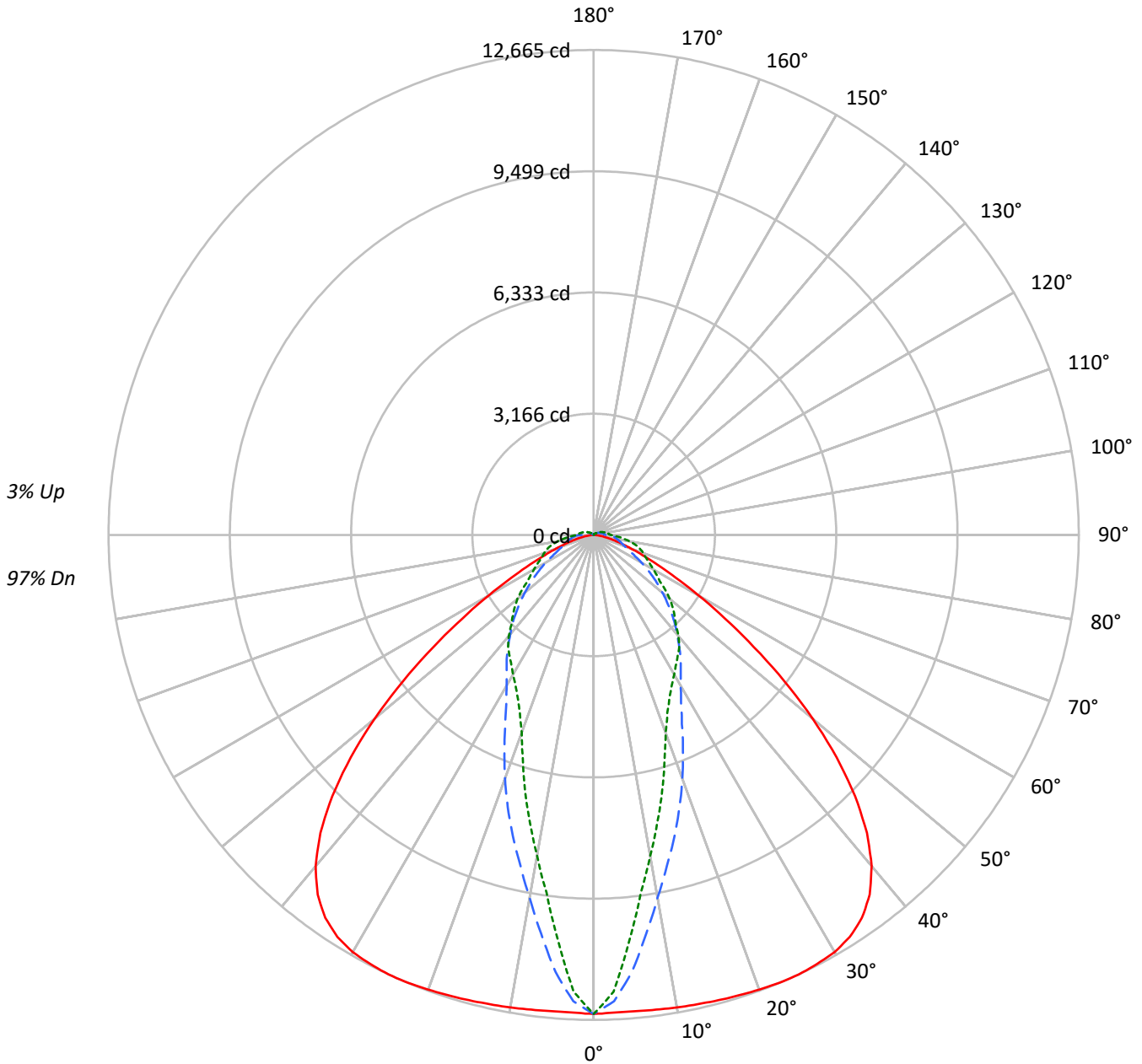
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18465.0 lumens
Efficiency: N/A
Efficacy: 175.9 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1.93' x H: 0.17')
CIE Type: Direct

Input Watts (W): 105
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					20					
RC	80					70					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	99	97					
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82					
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71					
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62					
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54					
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48					
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43					
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39					
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35					
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32					
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30					

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	41793	41793	41793
5°	41556	37962	35386
10°	41870	31895	28374
15°	42528	27207	23289
20°	43553	22944	18837
25°	44876	18938	16505
30°	46224	16267	15333
35°	46961	14778	14608
40°	45913	13302	13859
45°	41984	11974	12830
50°	35173	10532	12042
55°	26501	9176	10716
60°	18377	7819	10259
65°	12193	6679	10044
70°	8170	6200	10537
75°	5511	6296	11258
80°	3615	6806	11591
85°	1907	8144	12159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1053.2	5.7
10°-20°	2477.5	13.4
20°-30°	3105.5	16.8
30°-40°	3295.3	17.8
40°-50°	2979.5	16.1
50°-60°	2160.3	11.7
60°-70°	1355.7	7.3
70°-80°	897.2	4.9
80°-90°	516.9	2.8
90°-100°	250.4	1.4
100°-110°	172.8	0.9
110°-120°	106.7	0.6
120°-130°	51.7	0.3
130°-140°	23.8	0.1
140°-150°	13.0	0.1
150°-160°	5.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	6636.2	35.9
0°-40°	9931.5	53.8
0°-60°	15071.3	81.6
0°-90°	17841.1	96.6
90°-120°	529.9	2.9
90°-150°	618.3	3.3
90°-180°	624.0	3.4
0°-180°	18465.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12511	12511	12511	12511	12511	
5°	12486	12166	11451	10920	10645	###
15°	12581	10255	8145	7243	6915	3568
25°	12665	7929	5454	4840	4687	5851
35°	12211	5271	3958	3834	3833	7591
45°	9653	3339	2868	2938	2988	7354
55°	5111	2070	1872	2030	2103	4618
65°	1828	1200	1084	1388	1543	1902
75°	564	647	728	1130	1198	629
85°	99	268	532	741	680	118
90°	0	112	308	435	438	6
95°	5	79	272	369	386	4
105°	10	52	198	262	269	10
115°	13	37	133	167	170	13
125°	14	19	68	86	84	12
135°	12	14	30	46	46	9
145°	14	16	18	27	26	9
155°	14	18	19	20	18	4
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°	12511.0	12511.0	12511.0	12511.0	12511.0
2.5°	12484.8	12413.4	12190.7	12055.0	11940.7
5°	12486.0	12165.7	11451.3	10920.2	10645.1
7.5°	12503.9	11791.8	10504.6	9729.5	9427.0
10°	12531.3	11328.6	9621.1	8794.7	8512.5
12.5°	12551.5	10807.1	8843.6	7994.6	7685.0
15°	12581.3	10254.6	8144.6	7243.2	6914.6
17.5°	12608.7	9734.2	7454.0	6512.1	6146.6
20°	12636.0	9173.4	6763.4	5792.9	5491.7
22.5°	12662.2	8581.6	6089.4	5234.5	5028.5
25°	12664.6	7929.1	5453.6	4840.3	4686.7
27.5°	12633.7	7252.7	4938.0	4510.5	4415.2
30°	12580.1	6596.7	4537.9	4272.3	4204.5
32.5°	12446.7	5927.5	4228.3	4042.5	4003.2
35°	12211.0	5271.4	3958.0	3834.2	3833.0
37.5°	11839.4	4689.1	3665.1	3643.6	3669.8
40°	11290.5	4179.5	3387.6	3444.8	3444.8
42.5°	10558.2	3736.5	3136.4	3194.7	3179.3
45°	9653.3	3338.8	2868.5	2937.5	2987.5
47.5°	8604.2	2988.7	2594.6	2728.0	2797.0
50°	7463.5	2655.3	2344.6	2514.8	2593.4
52.5°	6268.0	2346.9	2100.5	2295.7	2358.8
55°	5110.6	2069.5	1871.8	2030.2	2102.8
57.5°	4062.8	1805.1	1648.0	1798.0	1948.0
60°	3161.4	1577.7	1437.2	1651.5	1801.6
62.5°	2414.8	1375.3	1239.6	1514.6	1664.6
65°	1827.8	1200.3	1083.6	1388.4	1543.2
67.5°	1377.7	1049.0	962.1	1296.7	1447.9
70°	1034.7	902.6	864.5	1239.6	1375.3
72.5°	764.5	768.0	787.1	1189.5	1293.1
75°	564.4	646.6	727.5	1130.0	1197.9
77.5°	403.7	535.8	674.0	1058.6	1082.4
80°	279.8	437.0	618.0	964.5	944.3
82.5°	175.0	350.1	568.0	860.9	804.9
85°	98.8	267.9	532.3	740.6	679.9
87.5°	44.1	200.0	465.6	577.5	539.4
90°	0.0	111.9	308.4	434.6	438.2
92.5°	2.4	92.9	284.6	397.7	409.6
95°	4.8	78.6	271.5	369.1	385.8
97.5°	6.0	69.1	254.8	342.9	357.2
100°	7.1	61.9	234.6	315.5	327.5
102.5°	8.3	57.2	215.5	287.0	296.5
105°	9.5	52.4	197.7	262.0	269.1



TEST NUMBER: P829050

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.9	40.5	148.8	188.1	194.1
115°	13.1	36.9	133.4	166.7	170.3
117.5°	14.3	32.1	116.7	146.5	147.7
120°	14.3	28.6	100.0	125.0	125.0
122.5°	14.3	23.8	83.4	103.6	102.4
125°	14.3	19.1	67.9	85.7	84.5
127.5°	13.1	15.5	54.8	71.4	70.3
130°	13.1	15.5	44.1	60.7	60.7
132.5°	11.9	14.3	35.7	52.4	52.4
135°	11.9	14.3	29.8	46.4	46.4
137.5°	11.9	15.5	25.0	40.5	40.5
140°	11.9	14.3	21.4	35.7	35.7
142.5°	13.1	14.3	19.1	31.0	31.0
145°	14.3	15.5	17.9	27.4	26.2
147.5°	14.3	16.7	17.9	23.8	22.6
150°	14.3	17.9	17.9	21.4	20.2
152.5°	14.3	17.9	17.9	20.2	19.1
155°	14.3	17.9	19.1	20.2	17.9
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°	9.5	48.8	181.0	234.6	242.9
110°	10.7	44.1	165.5	209.6	217.9



(END OF REPORT)