

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: P828159

Luminaire Tested: **OHB-18HE-NL-UNV-L940-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828159
REPORT IS A COMBINATION OF REPORTS P826027 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: OHB-18HE-NL-UNV-L940-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

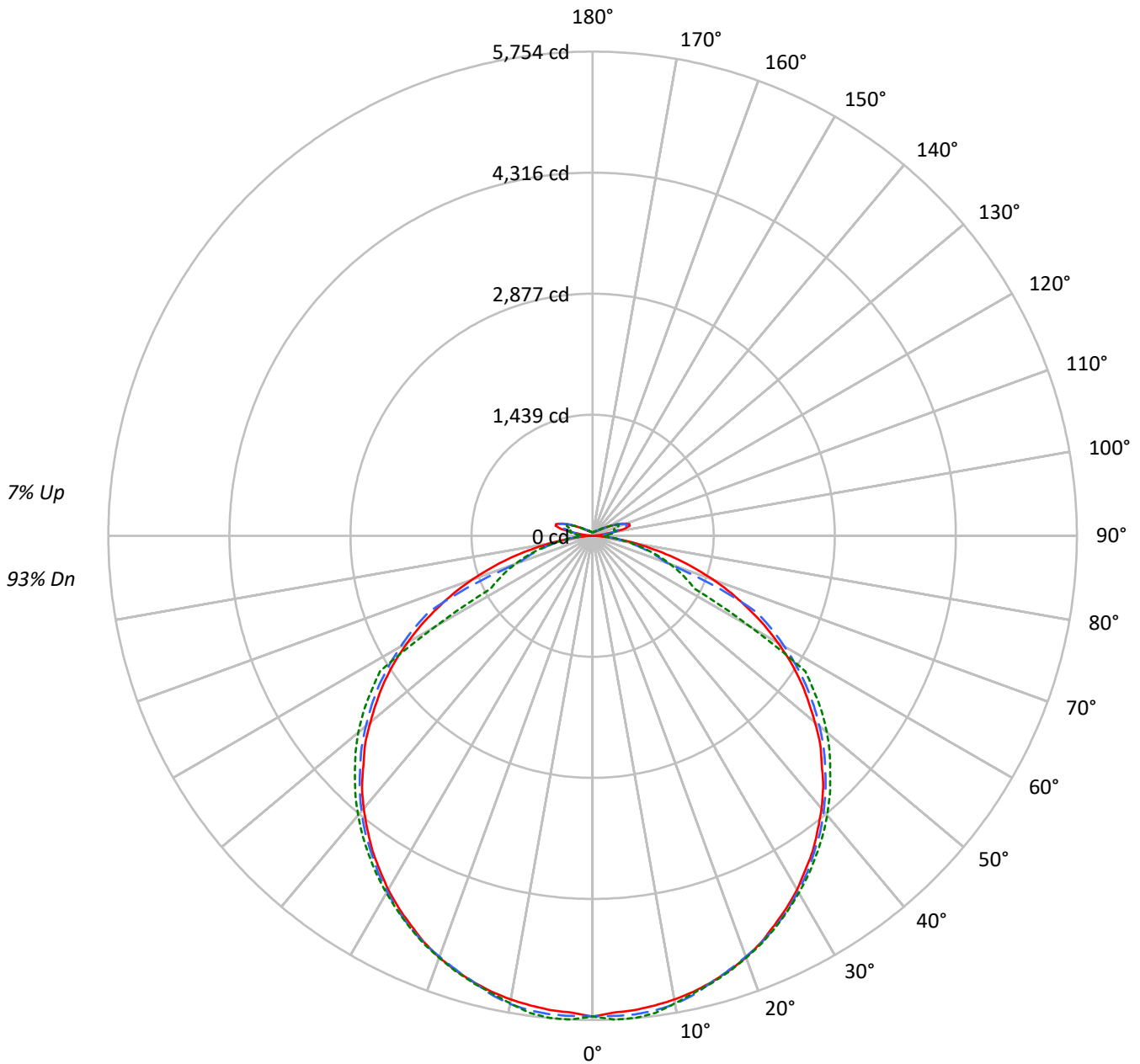
Lumens per Lamp: N/A
Luminaire Lumens: 17120.5 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.1')
CIE Type: Direct

Input Watts (W): 113.4
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				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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93
1	108	103	99	95	104	100	97	93	95	92	89	90	87	85	85	83	81	81	81	81	79
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	69	69	69	66
3	90	79	72	65	87	77	70	64	73	67	62	70	65	60	66	62	58	58	58	58	56
4	82	70	62	55	79	69	61	55	65	58	53	62	56	52	59	54	50	50	50	50	48
5	75	63	54	48	73	61	53	47	58	51	46	56	50	45	53	48	44	44	44	44	41
6	70	57	48	41	67	55	47	41	53	46	40	50	44	39	48	43	38	38	38	38	36
7	64	51	43	37	62	50	42	36	48	41	35	46	40	35	44	38	34	34	34	34	32
8	60	47	38	33	58	46	38	32	44	37	32	42	36	31	40	35	30	30	30	30	29
9	56	43	35	29	54	42	34	29	40	33	28	39	32	28	37	32	27	27	27	27	26
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	25	25	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19082	19082	19082
5°	18877	19017	19206
10°	18783	18899	18965
15°	18678	18582	18757
20°	18547	18395	18620
25°	18311	18247	18488
30°	18108	18011	18358
35°	17864	17735	18232
40°	17569	17471	18117
45°	17158	17110	17937
50°	16718	16706	17786
55°	16184	16198	17390
60°	15383	15469	13343
65°	14235	14538	8807
70°	12757	7415	8314
75°	10591	6624	7601
80°	7438	5434	6426
85°	2985	4177	5119



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.7	3.2
10°-20°	1553.9	9.1
20°-30°	2364.3	13.8
30°-40°	2874.7	16.8
40°-50°	3022.6	17.7
50°-60°	2760.0	16.1
60°-70°	1769.3	10.3
70°-80°	835.8	4.9
80°-90°	234.5	1.4
90°-100°	164.8	1.0
100°-110°	376.7	2.2
110°-120°	313.8	1.8
120°-130°	148.1	0.9
130°-140°	74.1	0.4
140°-150°	43.1	0.3
150°-160°	25.2	0.1
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	4460.9	26.1
0°-40°	7335.5	42.8
0°-60°	13118.1	76.6
0°-90°	15957.7	93.2
90°-120°	855.3	5.0
90°-150°	1120.7	6.5
90°-180°	1163.0	6.8
0°-180°	17120.5	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	207	225	212	194
90°	3	72	113	136	138	8
95°	25	80	141	190	206	73
105°	454	455	395	285	262	430
115°	318	320	324	318	307	316
125°	153	159	163	161	162	143
135°	89	91	95	96	96	71
145°	65	67	68	69	70	41
155°	52	53	54	55	55	24
165°	45	45	46	46	46	13
175°	41	41	41	41	41	4
180°	40	40	40	40	40	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5712.2	5712.2	5712.2	5712.2	5712.2
2.5°	5672.2	5691.2	5712.2	5739.3	5754.2
5°	5659.0	5681.1	5710.3	5741.3	5753.3
7.5°	5631.0	5662.1	5690.2	5712.2	5719.2
10°	5595.9	5633.0	5649.1	5647.0	5642.1
12.5°	5548.8	5588.0	5583.0	5559.8	5563.9
15°	5487.7	5528.8	5486.7	5494.7	5498.7
17.5°	5415.5	5455.7	5406.6	5422.6	5423.6
20°	5331.3	5361.4	5323.3	5336.4	5336.4
22.5°	5230.1	5251.2	5235.1	5244.1	5246.1
25°	5106.9	5114.8	5132.9	5140.9	5136.9
27.5°	4988.6	4978.5	5013.7	5032.7	5022.6
30°	4857.2	4841.2	4882.3	4913.4	4901.4
32.5°	4706.9	4696.9	4744.0	4781.1	4774.0
35°	4564.6	4537.5	4589.6	4645.8	4632.7
37.5°	4396.2	4380.2	4439.2	4498.4	4491.5
40°	4231.8	4204.7	4271.9	4342.0	4335.0
42.5°	4055.4	4023.3	4096.5	4180.7	4172.6
45°	3849.9	3842.9	3908.0	4000.2	3993.3
47.5°	3667.6	3632.5	3723.6	3812.9	3820.9
50°	3446.9	3434.0	3517.2	3625.4	3633.4
52.5°	3231.6	3222.5	3309.6	3418.9	3432.9
55°	3017.0	2993.9	3095.1	3198.4	3206.5
57.5°	2787.5	2763.4	2866.6	2979.0	2995.9
60°	2541.8	2518.8	2632.1	2736.4	2176.0
62.5°	2296.3	2280.3	2398.6	1699.0	1369.2
65°	2032.7	2032.7	2150.9	1233.8	1237.8
67.5°	1786.2	1770.2	1603.8	1108.5	1108.5
70°	1521.5	1527.6	924.0	971.3	972.2
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	562.4
80°	518.2	357.9	409.0	435.0	432.0
82.5°	302.7	250.6	299.7	318.7	317.7
85°	131.3	166.4	207.4	224.6	212.5
87.5°	42.0	103.3	129.3	139.4	138.2
90°	2.6	71.8	113.1	136.2	137.7
92.5°	7.8	64.1	113.3	147.2	152.5
95°	24.7	79.5	141.0	190.1	205.7
97.5°	119.4	148.8	191.5	240.6	251.3
100°	242.0	275.2	245.9	274.4	279.8
102.5°	386.6	390.5	293.7	280.7	277.4
105°	454.5	455.3	395.1	284.7	262.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	369.5	374.1	374.5	357.6	335.7
115°	318.0	320.0	323.9	318.3	307.0
117.5°	262.6	266.0	268.7	266.0	264.3
120°	220.0	225.2	226.9	223.4	223.4
122.5°	185.2	189.5	192.1	189.5	190.4
125°	153.0	159.1	162.6	160.8	161.7
127.5°	127.8	133.0	139.1	138.2	138.2
130°	111.3	114.8	119.1	120.0	120.0
132.5°	99.1	101.7	105.2	106.1	106.9
135°	88.7	91.3	94.8	95.6	95.6
137.5°	81.7	83.5	86.1	86.9	87.8
140°	74.8	77.4	79.1	80.0	80.0
142.5°	69.6	71.3	73.0	73.9	74.8
145°	65.2	66.9	67.8	68.7	69.6
147.5°	60.9	62.6	64.3	64.3	65.2
150°	58.3	59.1	60.0	60.9	60.9
152.5°	54.8	55.6	56.5	57.4	57.4
155°	52.2	53.0	53.9	54.8	54.8
157.5°	49.6	51.3	51.3	52.2	52.2
160°	47.8	48.7	49.6	49.6	49.6
162.5°	46.1	47.0	47.0	47.8	47.8
165°	45.2	45.2	46.1	46.1	46.1
167.5°	43.5	43.5	44.3	44.3	44.3
170°	42.6	42.6	42.6	43.5	43.5
172.5°	41.7	41.7	41.7	41.7	41.7
175°	40.9	40.9	40.9	40.9	40.9
177.5°	40.0	40.9	40.9	40.9	40.9
180°	40.0	40.0	40.0	40.0	40.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	457.1	463.8	432.2	333.3	271.6
110°	419.9	429.0	412.8	373.3	321.8



(END OF REPORT)