

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: P828325

Luminaire Tested: **OHBL-18SE-W-UNV-L940-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828325
REPORT IS A COMBINATION OF REPORTS P826166 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-18SE-W-UNV-L940-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

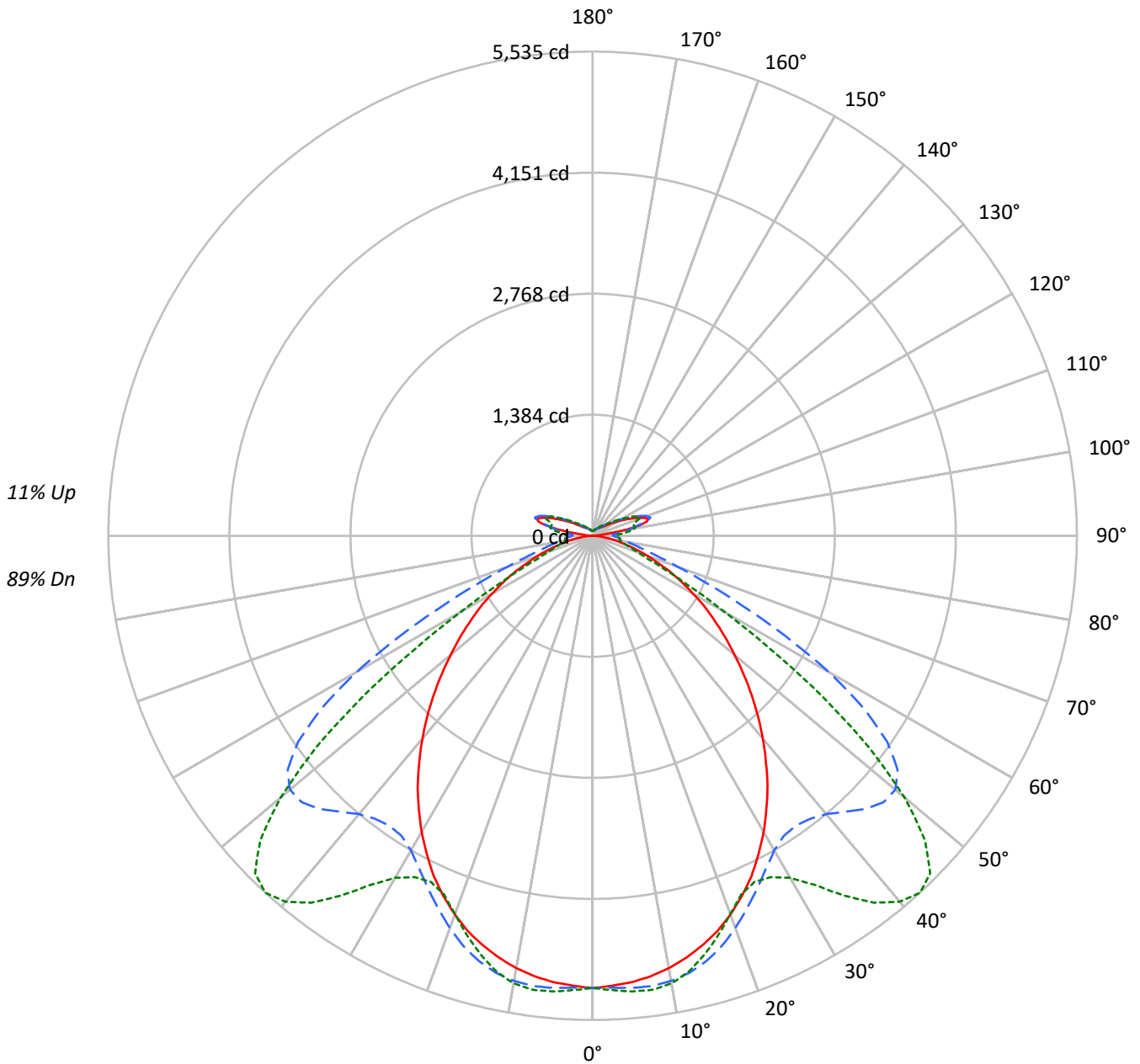
Lumens per Lamp: N/A
Luminaire Lumens: 17036.7 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 117.3
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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89																			
1	107	102	98	94	103	99	95	92	93	90	87	87	84	82	82	80	78	75																			
2	97	89	83	77	94	87	81	76	81	76	72	76	72	69	72	69	66	63																			
3	89	79	71	64	85	76	69	63	72	66	61	67	62	58	64	59	56	53																			
4	81	70	61	55	78	67	60	54	64	57	52	60	54	50	57	52	48	46																			
5	74	62	53	47	72	60	52	46	57	50	44	54	48	43	51	46	42	39																			
6	69	56	47	41	66	54	46	40	51	44	39	48	42	38	46	41	36	34																			
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	42	36	32	30																			
8	59	46	37	31	57	44	37	31	42	35	30	40	34	29	38	33	29	27																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	51	38	31	25	50	37	30	25	36	29	24	34	28	24	32	27	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8831	8831	8831
5°	8706	8818	8931
10°	8555	8805	8942
15°	8346	8659	8655
20°	8077	8361	8231
25°	7733	8001	8066
30°	7290	7733	8680
35°	6793	7876	10157
40°	6225	8530	11742
45°	5636	9676	12622
50°	5027	10699	11746
55°	4453	10685	8975
60°	3871	9040	5487
65°	3263	6241	3324
70°	2587	4034	2400
75°	1898	2891	2225
80°	1281	2538	2510
85°	764	2787	3968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.1	2.9
10°-20°	1399.1	8.2
20°-30°	2047.3	12.0
30°-40°	2658.8	15.6
40°-50°	3246.8	19.1
50°-60°	2859.3	16.8
60°-70°	1490.0	8.7
70°-80°	639.0	3.8
80°-90°	310.8	1.8
90°-100°	293.0	1.7
100°-110°	606.6	3.6
110°-120°	497.2	2.9
120°-130°	242.1	1.4
130°-140°	121.0	0.7
140°-150°	68.8	0.4
150°-160°	38.5	0.2
160°-170°	18.7	0.1
170°-180°	5.7	0.0
0°-30°	3940.4	23.1
0°-40°	6599.2	38.7
0°-60°	12705.3	74.6
0°-90°	15145.0	88.9
90°-120°	1396.8	8.2
90°-150°	1828.7	10.7
90°-180°	1892.0	11.1
0°-180°	17036.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5170	5170	5170	5170	5170	
5°	5122	5161	5189	5235	5229	486
15°	4847	4983	5031	4993	4953	1365
25°	4294	4524	4447	4364	4368	1971
35°	3486	3854	4047	4720	5022	2173
45°	2567	3229	4414	5344	5456	1979
55°	1709	2829	4110	3604	3204	1534
65°	980	1960	1882	1046	900	970
75°	395	917	605	414	393	431
85°	84	327	308	301	304	93
90°	5	140	233	271	281	8
95°	35	140	274	335	361	106
105°	649	677	649	510	482	616
115°	453	474	515	524	526	457
125°	225	239	272	282	281	211
135°	135	138	154	168	170	107
145°	103	102	106	114	116	65
155°	84	86	84	85	85	38
165°	64	65	65	66	66	18
175°	58	58	59	59	59	6
180°	58	58	58	58	58	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5170.2	5170.2	5170.2	5170.2	5170.2
2.5°	5147.9	5170.2	5171.3	5202.6	5199.2
5°	5122.2	5161.3	5189.2	5234.9	5229.3
7.5°	5079.8	5141.2	5190.2	5240.5	5236.0
10°	5019.6	5103.3	5168.0	5209.2	5195.9
12.5°	4941.5	5052.0	5115.6	5124.4	5098.8
15°	4846.7	4982.8	5030.8	4992.9	4952.7
17.5°	4739.6	4899.1	4915.8	4833.3	4783.2
20°	4605.8	4787.6	4770.8	4657.1	4601.3
22.5°	4457.4	4664.9	4611.4	4492.0	4438.4
25°	4294.5	4524.3	4447.4	4363.7	4368.2
27.5°	4103.8	4364.8	4290.1	4328.0	4399.4
30°	3909.7	4197.5	4151.8	4372.6	4513.2
32.5°	3696.6	4025.7	4067.0	4503.1	4732.9
35°	3485.9	3853.9	4046.9	4719.5	5021.8
37.5°	3252.7	3679.9	4079.3	4969.4	5286.2
40°	3026.3	3510.4	4152.9	5193.6	5461.3
42.5°	2795.4	3358.7	4276.7	5326.4	5535.0
45°	2566.7	3229.3	4413.9	5344.2	5455.8
47.5°	2338.0	3120.0	4508.7	5202.6	5151.2
50°	2117.2	3022.9	4515.4	4862.3	4652.6
52.5°	1910.8	2933.7	4392.7	4320.2	3994.5
55°	1708.9	2828.8	4110.5	3604.1	3203.6
57.5°	1524.8	2683.8	3675.5	2834.4	2397.1
60°	1329.6	2487.5	3113.3	2073.6	1729.0
62.5°	1150.0	2243.2	2483.0	1443.5	1242.6
65°	980.5	1959.9	1881.8	1046.3	900.2
67.5°	800.9	1666.6	1388.8	762.9	669.3
70°	660.3	1394.3	1034.0	593.4	538.8
72.5°	516.4	1135.6	773.0	481.8	451.8
75°	394.9	916.9	604.6	413.9	392.6
77.5°	291.2	725.0	486.4	365.9	345.8
80°	204.1	571.1	407.2	326.8	319.0
82.5°	137.2	441.8	346.9	311.2	312.3
85°	83.6	326.8	307.9	301.2	304.5
87.5°	40.2	232.1	264.4	274.4	277.8
90°	4.6	140.0	232.6	271.2	281.1
92.5°	11.3	119.0	226.3	273.5	286.0
95°	35.3	140.4	273.9	334.8	361.3
97.5°	171.8	242.1	352.0	419.2	436.5
100°	352.8	416.0	437.2	479.8	488.4
102.5°	550.2	589.5	510.7	497.1	494.0
105°	648.7	677.2	649.1	509.5	482.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	530.1	553.7	590.1	591.7	572.3
115°	452.7	473.6	515.1	524.4	525.8
117.5°	387.8	402.6	441.2	452.8	454.8
120°	325.2	340.1	376.0	386.7	386.1
122.5°	273.0	286.4	320.8	330.5	329.9
125°	225.2	238.9	271.8	282.1	281.4
127.5°	191.0	200.0	232.3	242.6	242.0
130°	166.7	172.8	198.1	210.1	213.2
132.5°	150.2	152.8	173.6	185.6	189.6
135°	135.4	138.0	153.5	167.5	169.5
137.5°	124.1	126.7	138.0	150.8	154.0
140°	114.5	117.1	124.2	137.1	139.0
142.5°	107.8	109.3	115.2	125.0	127.0
145°	102.9	102.3	106.1	113.6	115.8
147.5°	96.8	97.4	99.1	105.3	106.4
150°	91.6	93.3	92.8	95.9	98.9
152.5°	88.1	88.9	88.4	89.3	91.6
155°	83.7	85.5	84.1	84.9	84.9
157.5°	72.2	73.0	73.9	74.8	74.8
160°	69.6	69.6	70.4	71.3	71.3
162.5°	66.9	66.9	67.8	68.7	68.7
165°	64.3	65.2	65.2	66.1	66.1
167.5°	62.6	62.6	63.5	63.5	64.3
170°	60.9	60.9	61.7	61.7	61.7
172.5°	59.1	60.0	60.0	60.0	60.0
175°	58.3	58.3	59.1	59.1	59.1
177.5°	57.4	58.3	58.3	58.3	58.3
180°	58.3	58.3	58.3	58.3	58.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	655.9	684.9	693.6	578.7	505.2
110°	601.1	632.6	659.0	624.7	566.9



(END OF REPORT)