

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: P826372

Luminaire Tested: **OHB-18SE-MFL-UNV-L830-CD-UPL18**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P826372
REPORT IS A COMBINATION OF REPORTS P826139 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: OHB-18SE-MFL-UNV-L830-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

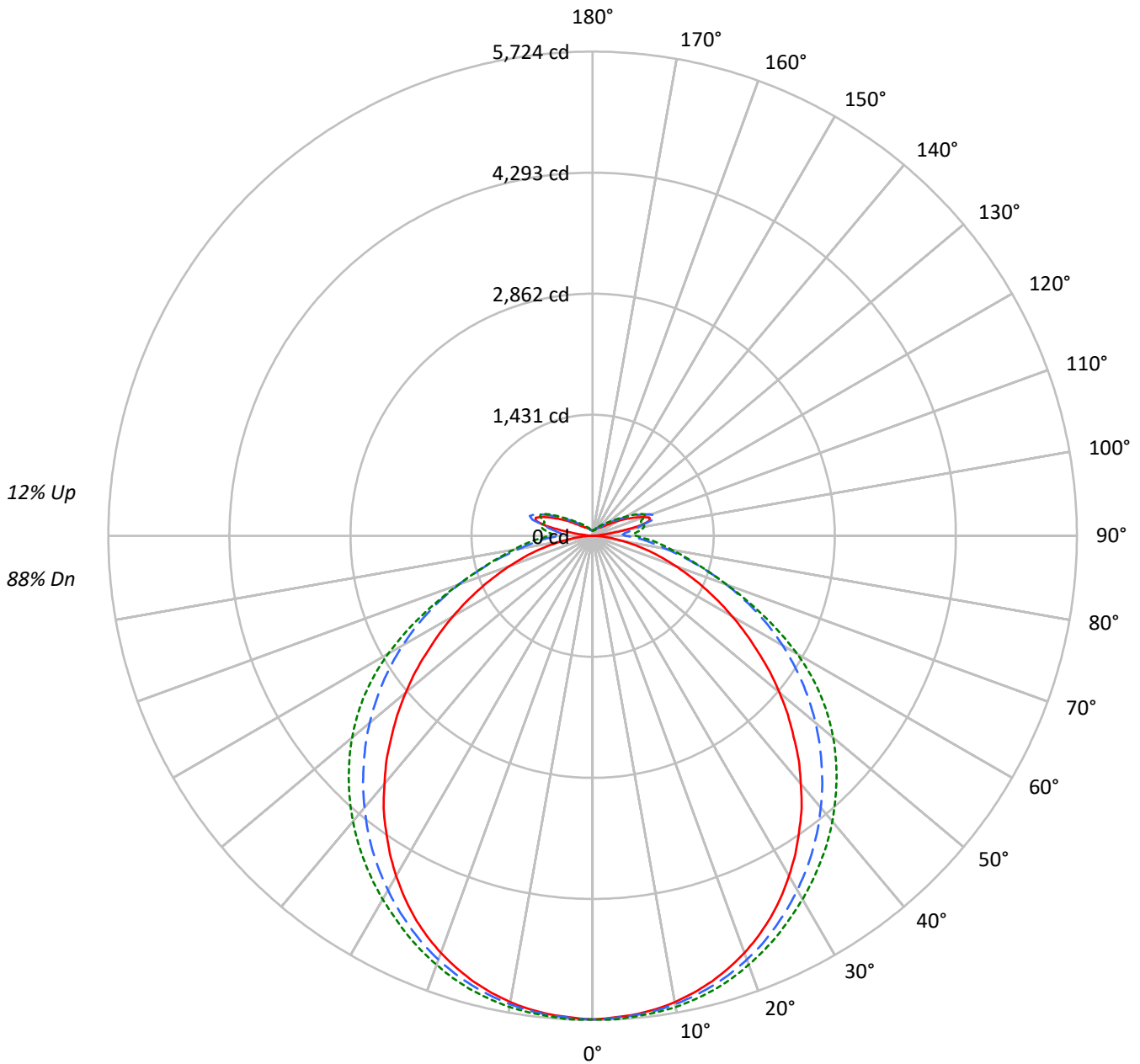
Lumens per Lamp: N/A
Luminaire Lumens: 18780.3 lumens
Efficiency: N/A
Efficacy: 156.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 119.9
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				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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88			88
1	106	101	96	92	102	97	93	90	91	88	85	85	82	80	79	77	75	73			73
2	96	87	81	75	92	85	78	73	79	74	70	74	70	66	69	66	63	60			60
3	87	77	69	62	84	74	67	61	70	63	58	65	60	56	61	57	53	51			51
4	80	68	59	52	77	66	58	51	62	55	49	58	52	48	55	50	46	43			43
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	40	37			37
6	68	55	46	39	65	53	45	39	50	43	37	47	41	36	45	39	35	33			33
7	63	49	41	35	60	48	40	34	45	38	33	43	37	32	41	35	31	29			29
8	58	45	37	31	56	44	36	30	41	34	29	39	33	29	37	32	28	26			26
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23			23
10	51	38	30	25	49	37	30	25	35	29	24	34	28	23	32	27	23	21			21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19103	19103	19103
5°	18889	18865	18991
10°	18665	18642	18901
15°	18365	18387	18782
20°	17997	18089	18601
25°	17536	17730	18419
30°	16935	17344	18235
35°	16226	16936	18080
40°	15394	16471	17928
45°	14431	15967	17732
50°	13387	15453	17492
55°	12132	14833	17076
60°	10847	14108	16230
65°	9455	13198	14826
70°	7957	12055	13305
75°	6432	10730	12299
80°	4587	9648	12277
85°	2552	9507	13887



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.9	2.9
10°-20°	1554.5	8.3
20°-30°	2351.0	12.5
30°-40°	2822.4	15.0
40°-50°	2915.0	15.5
50°-60°	2622.6	14.0
60°-70°	1975.6	10.5
70°-80°	1192.9	6.4
80°-90°	587.6	3.1
90°-100°	404.9	2.2
100°-110°	693.5	3.7
110°-120°	557.7	3.0
120°-130°	274.8	1.5
130°-140°	138.5	0.7
140°-150°	78.1	0.4
150°-160°	43.1	0.2
160°-170°	20.0	0.1
170°-180°	6.1	0.0
0°-30°	4447.4	23.7
0°-40°	7269.7	38.7
0°-60°	12807.4	68.2
0°-90°	16563.5	88.2
90°-120°	1656.1	8.8
90°-150°	2147.6	11.4
90°-180°	2217.0	11.8
0°-180°	18780.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5719	5719	5719	5719	5719	
5°	5682	5698	5691	5713	5706	540
15°	5453	5479	5504	5551	5556	1537
25°	4980	5034	5106	5185	5198	2290
35°	4258	4357	4536	4673	4701	2662
45°	3360	3530	3825	4034	4077	2594
55°	2381	2627	3026	3254	3293	2134
65°	1453	1749	2141	2248	2222	1443
75°	684	982	1240	1272	1260	730
85°	143	376	621	707	719	165
90°	4	170	387	490	513	12
95°	42	176	386	494	529	117
105°	699	740	736	612	589	664
115°	488	515	577	604	608	493
125°	244	259	308	332	334	229
135°	148	153	175	197	204	117
145°	114	115	119	131	136	72
155°	94	97	97	96	98	42
165°	69	70	70	71	71	20
175°	62	62	63	63	63	6
180°	62	62	62	62	62	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5718.6	5718.6	5718.6	5718.6	5718.6
2.5°	5701.8	5715.8	5707.4	5725.6	5724.2
5°	5682.2	5697.6	5690.6	5713.0	5706.0
7.5°	5648.7	5665.4	5664.0	5689.2	5686.4
10°	5599.6	5617.9	5623.4	5657.0	5657.0
12.5°	5532.4	5556.3	5570.2	5610.8	5612.2
15°	5452.7	5479.3	5504.4	5550.7	5556.3
17.5°	5356.1	5389.7	5424.7	5477.9	5484.9
20°	5246.9	5284.7	5332.3	5388.3	5396.7
22.5°	5120.9	5165.8	5227.3	5293.1	5303.0
25°	4979.6	5034.2	5105.6	5185.3	5198.0
27.5°	4818.7	4881.7	4978.2	5067.8	5079.0
30°	4643.8	4717.9	4838.2	4944.6	4962.8
32.5°	4459.0	4544.4	4692.7	4811.7	4836.8
35°	4257.5	4356.9	4536.0	4673.2	4701.1
37.5°	4058.7	4167.9	4370.8	4527.5	4561.1
40°	3826.4	3962.1	4194.5	4368.0	4408.6
42.5°	3608.0	3755.0	4018.1	4207.0	4246.2
45°	3360.3	3529.7	3825.0	4033.5	4077.0
47.5°	3128.0	3311.4	3638.8	3854.4	3899.1
50°	2883.0	3084.6	3440.1	3665.5	3711.6
52.5°	2638.1	2855.1	3234.3	3468.1	3511.5
55°	2380.6	2627.0	3025.9	3254.0	3293.1
57.5°	2141.3	2401.7	2811.7	3028.7	3052.4
60°	1904.8	2174.9	2593.4	2783.8	2792.1
62.5°	1673.9	1958.0	2369.5	2520.6	2509.4
65°	1452.8	1749.4	2141.3	2247.7	2222.5
67.5°	1240.0	1546.5	1907.6	1976.2	1942.6
70°	1038.5	1349.2	1680.9	1715.9	1685.0
72.5°	860.8	1161.6	1451.4	1480.7	1458.4
75°	684.4	982.5	1240.0	1272.2	1259.6
77.5°	519.2	808.9	1045.5	1087.4	1090.2
80°	373.7	650.8	876.1	941.9	950.3
82.5°	246.3	505.2	734.8	818.7	831.4
85°	142.7	376.5	621.4	706.8	719.4
87.5°	61.6	271.5	499.6	576.6	592.0
90°	3.7	170.2	387.1	489.8	512.6
92.5°	16.3	152.4	356.3	459.8	482.7
95°	42.3	175.7	386.0	494.1	529.0
97.5°	189.8	282.1	452.4	557.7	585.2
100°	382.5	465.5	529.6	604.1	621.0
102.5°	593.7	648.8	597.4	608.2	612.5
105°	699.3	740.4	736.4	611.9	588.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	571.4	601.7	659.1	680.6	662.9
115°	488.5	515.2	577.2	603.8	608.5
117.5°	419.2	437.5	495.2	524.2	529.3
120°	352.2	370.0	424.1	449.3	453.0
122.5°	296.4	311.8	362.6	386.5	388.8
125°	243.8	259.2	307.7	331.9	334.3
127.5°	207.0	218.2	263.0	287.3	289.6
130°	181.0	188.9	225.3	250.0	255.2
132.5°	163.3	168.9	196.9	220.3	227.7
135°	147.5	153.1	174.6	197.4	204.0
137.5°	135.4	141.0	156.0	177.4	183.9
140°	126.6	130.7	140.6	159.2	165.7
142.5°	119.6	122.4	128.0	144.3	149.4
145°	114.5	114.9	119.1	131.3	135.5
147.5°	107.9	109.8	111.7	119.2	123.4
150°	102.4	105.6	106.1	108.4	113.6
152.5°	98.6	101.0	101.4	101.0	103.8
155°	94.0	97.2	96.8	96.3	97.7
157.5°	77.2	78.2	79.1	80.0	80.0
160°	74.4	74.4	75.4	76.3	76.3
162.5°	71.7	71.7	72.6	73.5	73.5
165°	68.9	69.8	69.8	70.7	70.7
167.5°	67.0	67.0	67.9	67.9	68.9
170°	65.1	65.1	66.1	66.1	66.1
172.5°	63.3	64.2	64.2	64.2	64.2
175°	62.3	62.3	63.3	63.3	63.3
177.5°	61.4	62.3	62.3	62.3	62.3
180°	62.3	62.3	62.3	62.3	62.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	705.8	746.4	777.9	677.9	603.9
110°	647.2	689.6	737.3	720.7	663.5



(END OF REPORT)