

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: P828351

Luminaire Tested: **OHBL-24SE-MFL-UNV-L940-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828351
REPORT IS A COMBINATION OF REPORTS P826079 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: OHBL-24SE-MFL-UNV-L940-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

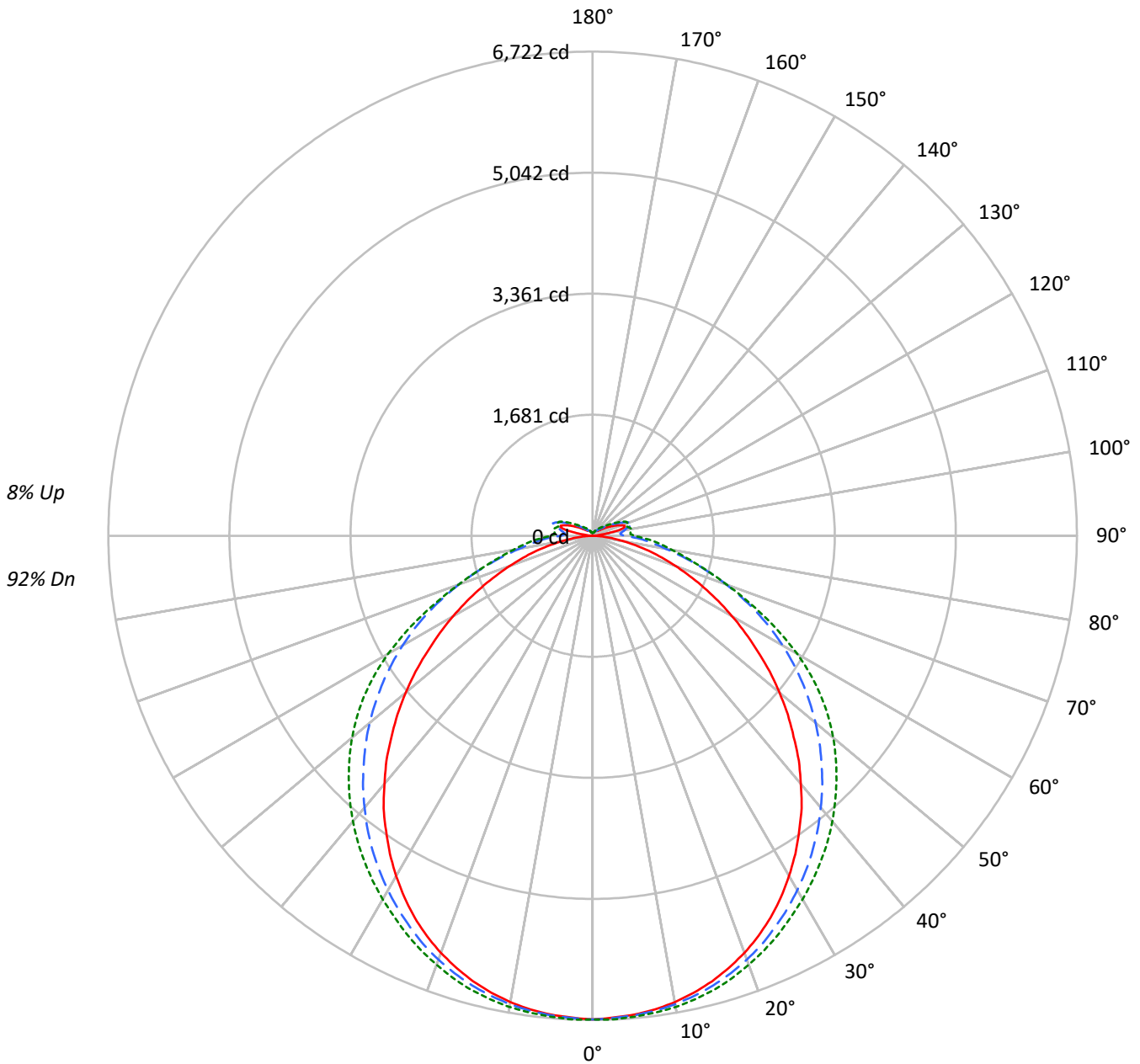
Lumens per Lamp: N/A
Luminaire Lumens: 21180.8 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 146.4
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									
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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92																			
1	106	101	97	93	103	98	94	91	92	89	86	87	85	82	82	80	78	76																			
2	97	88	81	75	93	86	79	74	81	75	71	76	72	68	72	68	65	63																			
3	88	77	69	63	85	75	68	61	71	65	59	67	62	57	64	59	55	53																			
4	80	68	60	53	78	67	58	52	63	56	50	60	54	49	57	52	47	45																			
5	74	61	52	45	71	59	51	45	56	49	44	54	47	42	51	46	41	39																			
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	34	46	39	34	44	38	33	42	36	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	39	33	29	27																			
9	55	42	33	28	53	41	33	28	39	32	27	37	31	26	36	30	26	24																			
10	51	38	30	25	50	38	30	25	36	29	25	35	28	24	33	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11470	11470	11470
5°	11341	11356	11444
10°	11207	11251	11433
15°	11027	11126	11403
20°	10806	10974	11337
25°	10529	10786	11272
30°	10168	10583	11209
35°	9742	10367	11166
40°	9243	10117	11131
45°	8665	9846	11076
50°	8038	9572	11003
55°	7284	9237	10834
60°	6513	8842	10406
65°	5677	8340	9637
70°	4777	7701	8814
75°	3862	6962	8382
80°	2754	6413	8781
85°	1532	6606	11008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.3	3.0
10°-20°	1825.5	8.6
20°-30°	2760.8	13.0
30°-40°	3314.3	15.6
40°-50°	3423.2	16.2
50°-60°	3079.8	14.5
60°-70°	2319.9	11.0
70°-80°	1400.9	6.6
80°-90°	687.9	3.2
90°-100°	391.8	1.8
100°-110°	524.5	2.5
110°-120°	405.7	1.9
120°-130°	202.8	1.0
130°-140°	102.9	0.5
140°-150°	57.1	0.3
150°-160°	30.4	0.1
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	5222.6	24.7
0°-40°	8536.9	40.3
0°-60°	15039.9	71.0
0°-90°	19448.5	91.8
90°-120°	1322.1	6.2
90°-150°	1684.9	8.0
90°-180°	1732.0	8.2
0°-180°	21180.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6715	6715	6715	6715	6715	
5°	6673	6691	6683	6709	6701	634
15°	6403	6434	6464	6518	6525	1805
25°	5848	5912	5996	6089	6104	2690
35°	5000	5116	5327	5488	5520	3125
45°	3946	4145	4492	4737	4788	3046
55°	2796	3085	3553	3821	3867	2506
65°	1706	2054	2515	2640	2610	1695
75°	804	1154	1456	1494	1479	857
85°	168	442	730	830	845	194
90°	3	188	438	553	578	12
95°	30	167	387	499	529	78
105°	461	512	560	505	493	437
115°	326	351	426	461	462	326
125°	166	177	230	258	264	154
135°	100	106	129	155	161	80
145°	82	82	84	98	104	51
155°	69	71	70	70	71	29
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°	6715.4	6715.4	6715.4	6715.4	6715.4
2.5°	6695.7	6712.1	6702.3	6723.6	6722.0
5°	6672.6	6690.7	6682.6	6708.8	6700.6
7.5°	6633.3	6653.0	6651.3	6680.9	6677.6
10°	6575.7	6597.1	6603.7	6643.1	6643.1
12.5°	6496.8	6524.7	6541.2	6588.8	6590.5
15°	6403.1	6434.3	6464.0	6518.2	6524.7
17.5°	6289.7	6329.2	6370.2	6432.8	6440.9
20°	6161.6	6205.9	6261.8	6327.6	6337.4
22.5°	6013.6	6066.2	6138.5	6215.7	6227.3
25°	5847.6	5911.7	5995.5	6089.2	6104.0
27.5°	5658.6	5732.6	5846.0	5951.2	5964.3
30°	5453.2	5540.3	5681.6	5806.6	5827.9
32.5°	5236.2	5336.5	5510.7	5650.4	5680.0
35°	4999.6	5116.2	5326.7	5487.7	5520.5
37.5°	4766.2	4894.4	5132.7	5316.7	5356.2
40°	4493.4	4652.8	4925.6	5129.4	5177.1
42.5°	4237.0	4409.6	4718.6	4940.4	4986.4
45°	3946.1	4145.0	4491.7	4736.6	4787.6
47.5°	3673.2	3888.6	4273.1	4526.2	4578.8
50°	3385.6	3622.3	4039.8	4304.4	4358.6
52.5°	3098.0	3352.8	3798.2	4072.7	4123.6
55°	2795.6	3084.9	3553.2	3821.2	3867.2
57.5°	2514.6	2820.3	3301.8	3556.5	3584.5
60°	2236.8	2554.0	3045.4	3268.9	3278.8
62.5°	1965.6	2299.2	2782.5	2959.9	2946.8
65°	1705.9	2054.4	2514.6	2639.5	2609.9
67.5°	1456.1	1816.1	2240.1	2320.6	2281.2
70°	1219.5	1584.4	1973.9	2014.9	1978.8
72.5°	1010.7	1364.2	1704.3	1738.8	1712.5
75°	803.7	1153.8	1456.1	1494.0	1479.2
77.5°	609.7	950.0	1227.7	1277.0	1280.3
80°	438.8	764.2	1028.8	1106.1	1115.9
82.5°	289.3	593.3	862.8	961.4	976.2
85°	167.6	442.1	729.7	830.0	844.8
87.5°	72.3	318.8	586.7	677.1	695.2
90°	2.6	188.2	438.3	552.9	577.7
92.5°	12.8	163.0	391.3	503.8	526.3
95°	30.0	167.1	387.1	498.6	529.1
97.5°	127.2	226.4	415.5	517.2	540.7
100°	249.8	343.7	449.8	528.4	545.8
102.5°	391.5	452.1	480.2	514.9	522.1
105°	461.0	511.7	559.8	505.3	493.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	376.6	410.4	488.4	517.1	509.0
115°	326.1	350.8	425.6	460.8	462.2
117.5°	277.4	298.9	367.3	400.8	404.0
120°	234.8	253.1	314.0	343.4	350.0
122.5°	200.0	212.6	269.4	298.0	303.8
125°	166.2	177.2	230.0	257.8	263.6
127.5°	139.3	147.8	196.7	225.4	230.3
130°	122.8	127.9	168.4	197.2	202.1
132.5°	110.6	116.5	146.3	173.5	180.9
135°	100.2	106.1	129.3	154.8	161.4
137.5°	93.2	98.2	114.0	137.9	145.4
140°	87.9	92.2	102.2	122.7	129.3
142.5°	84.3	86.1	91.1	110.1	115.9
145°	81.6	81.7	84.2	98.2	104.1
147.5°	77.3	79.0	80.8	87.4	93.1
150°	74.7	77.2	76.4	78.9	83.9
152.5°	71.2	73.7	72.9	72.2	75.5
155°	68.6	71.1	70.3	69.6	71.2
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°	463.6	513.1	577.7	534.7	487.2
110°	425.3	472.5	542.2	552.5	516.4



(END OF REPORT)