

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: P828362

Luminaire Tested: **OHBL-24SE-W-UNV-L940-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828362
REPORT IS A COMBINATION OF REPORTS P826310 AND G3-2310-221-2
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24SE-W-UNV-L940-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

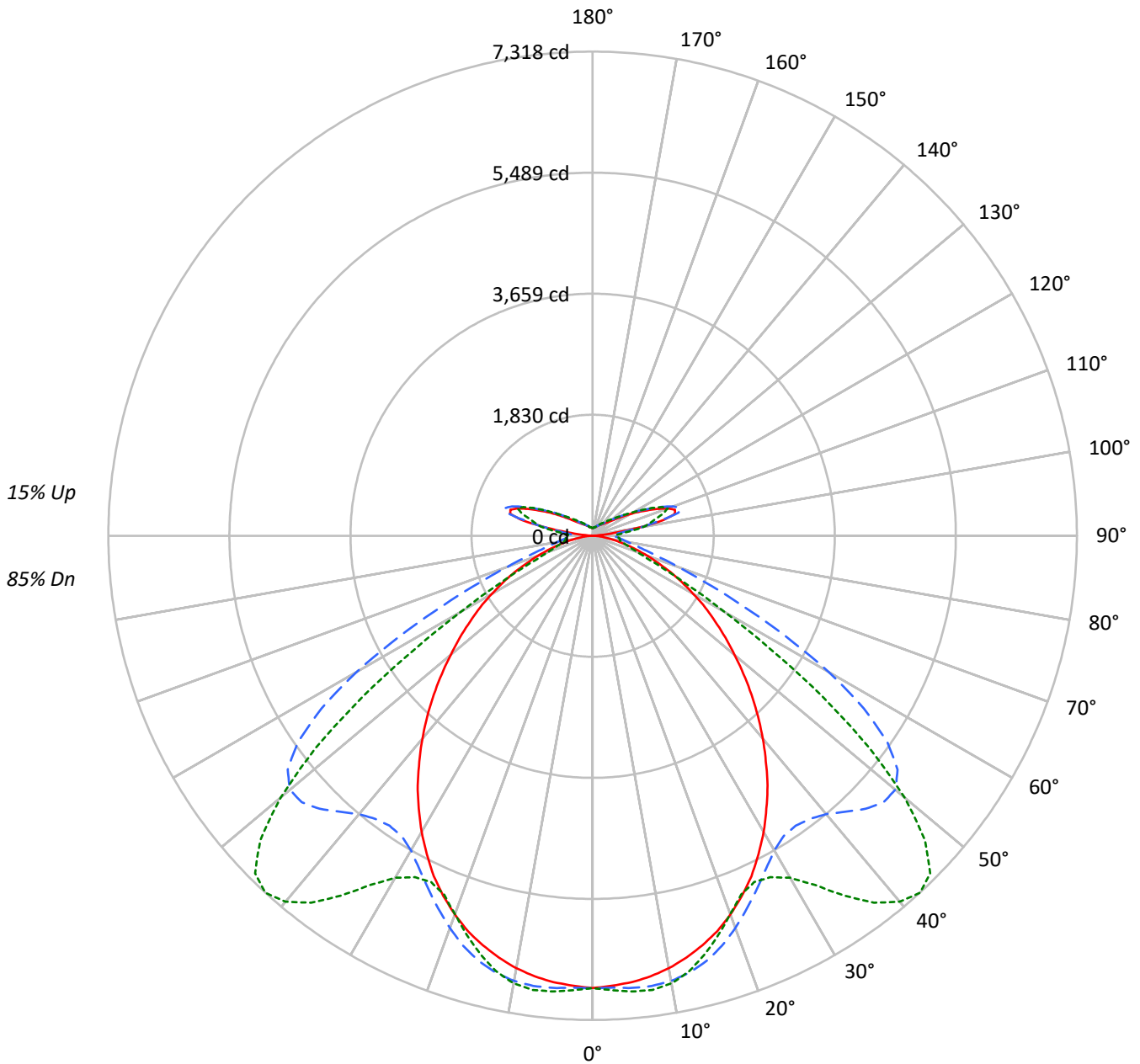
Lumens per Lamp: N/A
Luminaire Lumens: 23582.0 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 166.8
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	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85			
1	106	101	97	94	102	98	94	91	91	88	85	84	82	80	78	77	75	72			
2	96	89	82	77	92	85	80	75	80	75	71	74	70	67	69	66	63	60			
3	88	78	70	64	84	75	68	62	70	64	59	65	61	56	61	57	54	51			
4	80	69	60	54	77	67	59	53	62	56	51	58	53	48	54	50	46	43			
5	74	61	53	46	71	59	51	45	56	49	43	52	46	42	49	44	40	37			
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	33			
7	63	50	41	35	60	48	40	35	45	38	33	43	37	32	40	35	31	29			
8	58	45	37	31	56	44	36	31	41	34	30	39	33	28	37	31	27	25			
9	54	41	33	28	52	40	32	27	38	31	26	36	30	25	34	28	25	23			
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	31	26	22	20			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11675	11675	11675
5°	11511	11659	11809
10°	11311	11641	11822
15°	11035	11449	11444
20°	10680	11055	10883
25°	10224	10579	10665
30°	9638	10225	11476
35°	8981	10413	13430
40°	8230	11278	15525
45°	7452	12793	16688
50°	6646	14145	15530
55°	5887	14127	11866
60°	5119	11952	7255
65°	4314	8252	4395
70°	3420	5334	3173
75°	2509	3822	2942
80°	1694	3356	3319
85°	1011	3685	5246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.2	2.8
10°-20°	1849.8	7.8
20°-30°	2706.8	11.5
30°-40°	3515.4	14.9
40°-50°	4292.7	18.2
50°-60°	3780.4	16.0
60°-70°	1970.0	8.4
70°-80°	844.8	3.6
80°-90°	412.4	1.7
90°-100°	429.8	1.8
100°-110°	1201.9	5.1
110°-120°	966.7	4.1
120°-130°	462.5	2.0
130°-140°	234.0	1.0
140°-150°	134.8	0.6
150°-160°	76.9	0.3
160°-170°	38.3	0.2
170°-180°	11.7	0.0
0°-30°	5209.8	22.1
0°-40°	8725.2	37.0
0°-60°	16798.4	71.2
0°-90°	20025.5	84.9
90°-120°	2598.4	11.0
90°-150°	3429.6	14.5
90°-180°	3557.0	15.1
0°-180°	23582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6836	6836	6836	6836	6836	
5°	6772	6824	6861	6921	6914	642
15°	6408	6588	6651	6601	6548	1804
25°	5678	5982	5880	5770	5775	2606
35°	4609	5096	5351	6240	6640	2873
45°	3394	4270	5836	7066	7213	2617
55°	2259	3740	5435	4765	4236	2028
65°	1296	2591	2488	1383	1190	1283
75°	522	1212	799	547	519	569
85°	111	432	407	398	403	123
90°	8	199	323	369	378	13
95°	57	199	357	433	454	203
105°	1290	1333	1344	1063	979	1227
115°	904	913	976	1001	995	914
125°	451	471	517	524	517	424
135°	270	276	297	316	319	213
145°	201	203	209	220	224	128
155°	165	168	167	169	169	75
165°	131	133	134	135	136	38
175°	120	120	121	121	122	12
180°	118	118	118	118	118	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6835.8	6835.8	6835.8	6835.8	6835.8
2.5°	6806.3	6835.8	6837.3	6878.6	6874.2
5°	6772.4	6824.0	6860.9	6921.3	6914.0
7.5°	6716.4	6797.5	6862.4	6928.7	6922.8
10°	6636.7	6747.3	6832.9	6887.4	6869.7
12.5°	6533.4	6679.5	6763.5	6775.3	6741.4
15°	6408.1	6588.0	6651.4	6601.3	6548.2
17.5°	6266.5	6477.4	6499.5	6390.4	6324.1
20°	6089.5	6329.9	6307.8	6157.4	6083.7
22.5°	5893.4	6167.7	6096.9	5939.1	5868.3
25°	5678.1	5981.9	5880.1	5769.5	5775.4
27.5°	5425.9	5770.9	5672.2	5722.3	5816.7
30°	5169.3	5549.8	5489.3	5781.3	5967.2
32.5°	4887.6	5322.7	5377.2	5953.9	6257.7
35°	4608.8	5095.6	5350.6	6240.0	6639.7
37.5°	4300.6	4865.4	5393.4	6570.3	6989.2
40°	4001.2	4641.3	5490.8	6866.8	7220.7
42.5°	3695.9	4440.7	5654.4	7042.2	7318.0
45°	3393.5	4269.6	5835.9	7065.9	7213.3
47.5°	3091.2	4125.1	5961.3	6878.6	6810.7
50°	2799.2	3996.7	5970.0	6428.8	6151.5
52.5°	2526.3	3878.8	5807.9	5712.0	5281.4
55°	2259.4	3740.2	5434.7	4765.2	4235.7
57.5°	2016.1	3548.5	4859.5	3747.6	3169.4
60°	1758.0	3288.8	4116.2	2741.7	2285.9
62.5°	1520.6	2965.8	3282.9	1908.4	1643.0
65°	1296.3	2591.3	2488.0	1383.4	1190.2
67.5°	1058.9	2203.3	1836.2	1008.8	884.9
70°	873.1	1843.6	1367.2	784.6	712.3
72.5°	682.9	1501.4	1022.0	637.1	597.3
75°	522.1	1212.3	799.4	547.1	519.1
77.5°	384.9	958.6	643.0	483.8	457.2
80°	269.9	755.1	538.3	432.1	421.8
82.5°	181.4	584.0	458.6	411.5	413.0
85°	110.6	432.1	407.1	398.2	402.6
87.5°	53.1	306.7	349.5	362.8	367.3
90°	8.4	198.9	323.2	369.3	377.6
92.5°	21.7	171.6	302.9	357.8	370.4
95°	56.9	199.3	357.3	433.3	454.5
97.5°	328.1	424.7	495.1	592.6	617.9
100°	702.6	781.3	726.7	767.9	789.7
102.5°	1098.2	1166.1	1029.8	910.9	887.8
105°	1290.1	1333.2	1343.7	1063.1	979.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1060.9	1090.0	1142.4	1159.6	1134.7
115°	904.4	912.8	975.9	1001.1	995.3
117.5°	776.3	783.8	839.4	853.7	845.6
120°	654.6	666.3	717.8	723.4	717.9
122.5°	544.2	563.7	609.7	617.1	607.3
125°	451.2	471.2	517.1	523.9	516.7
127.5°	387.1	393.8	438.4	448.8	450.3
130°	334.0	341.0	377.1	393.6	394.8
132.5°	297.5	304.5	333.8	351.2	356.7
135°	269.7	275.8	297.4	316.3	318.7
137.5°	247.1	252.3	267.9	286.9	290.7
140°	228.0	233.2	244.3	262.5	264.0
142.5°	213.8	217.5	226.3	240.7	242.1
145°	201.4	202.8	208.6	220.1	223.8
147.5°	190.9	192.9	197.3	204.1	206.4
150°	181.4	184.0	184.5	189.2	193.0
152.5°	172.7	175.3	175.8	176.7	180.5
155°	164.8	167.5	167.1	168.8	168.8
157.5°	146.1	148.7	151.3	152.2	152.2
160°	140.8	142.6	145.2	145.2	146.1
162.5°	135.6	137.4	139.1	140.0	140.8
165°	131.3	133.0	133.9	134.8	135.6
167.5°	127.8	128.7	129.5	130.4	130.4
170°	124.3	125.2	126.1	126.1	126.9
172.5°	121.7	122.6	123.5	123.5	123.5
175°	120.0	120.0	120.9	120.9	121.7
177.5°	118.2	119.1	119.1	119.1	120.0
180°	118.2	118.2	118.2	118.2	118.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1303.7	1344.7	1391.5	1265.3	<i>1117.0</i>
110°	1203.7	1247.5	1296.8	1270.9	<i>1205.1</i>



(END OF REPORT)