

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: P826602

Luminaire Tested: **OHBL-36SE-MCL-UNV-L830-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826602
REPORT IS A COMBINATION OF REPORTS P826318 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-36SE-MCL-UNV-L830-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

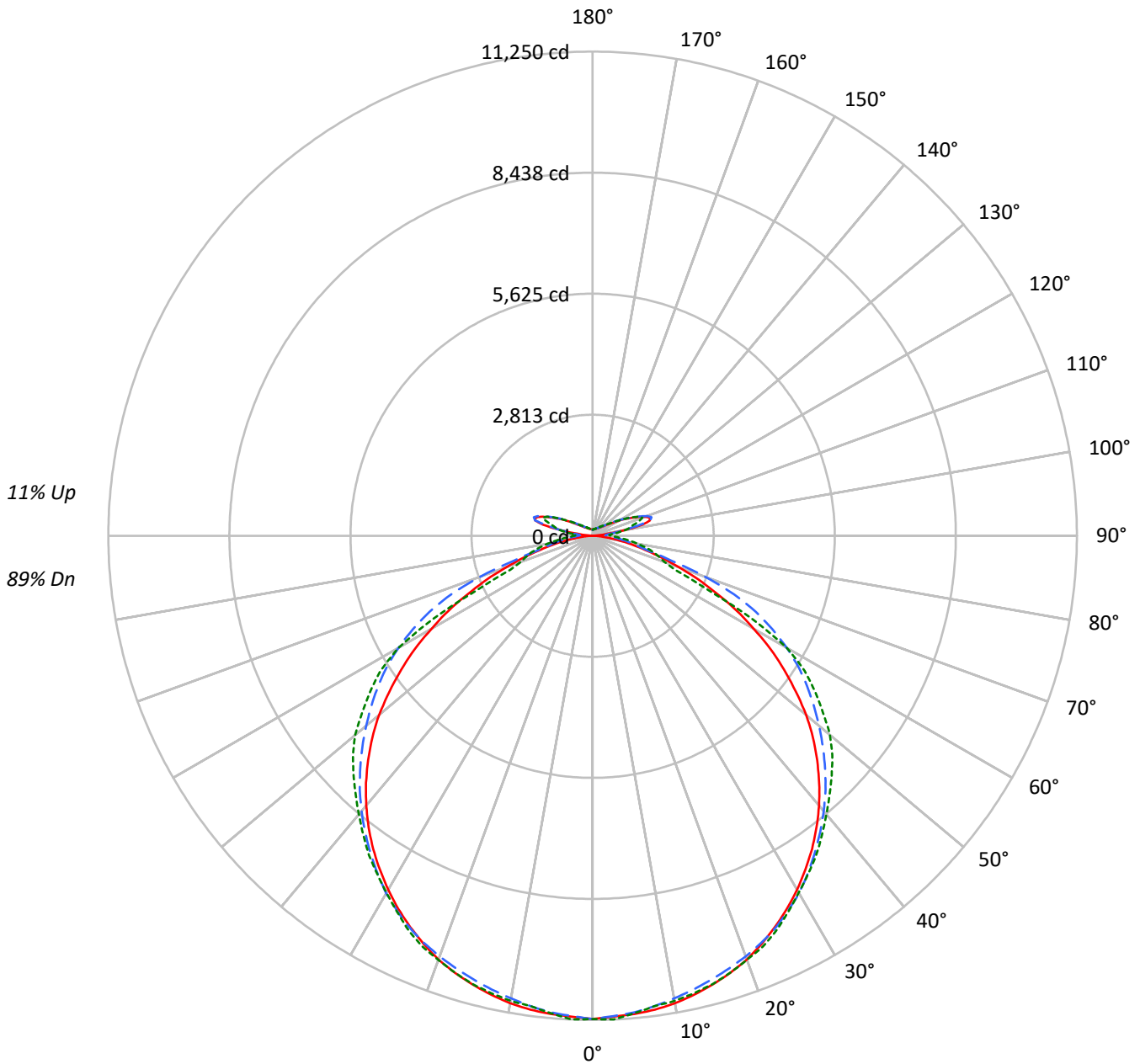
Lumens per Lamp: N/A
Luminaire Lumens: 35067.1 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 239.8
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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	92	92	92	89			
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78	76			
2	97	89	83	77	94	87	81	76	81	76	72	77	73	69	72	69	66	63			
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56	54			
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46			
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	40			
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37	35			
7	64	51	42	36	61	49	41	36	47	40	35	44	38	34	42	37	33	31			
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27			
9	55	42	34	29	53	41	34	28	39	32	28	37	31	27	36	30	26	24			
10	52	39	31	26	50	38	31	26	36	30	25	35	29	24	33	28	24	22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17756	17756	17756
5°	17565	17498	17609
10°	17427	17233	17487
15°	17242	17035	17445
20°	17056	16910	17368
25°	16771	16784	17295
30°	16465	16586	17054
35°	16112	16271	16965
40°	15673	15947	16819
45°	15097	15571	16824
50°	14345	15143	16826
55°	13216	14722	16355
60°	11775	14106	15304
65°	9944	12962	9852
70°	7839	10119	7298
75°	5691	6007	7649
80°	3751	4994	7711
85°	1903	4577	8108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1058.6	3.0
10°-20°	3035.7	8.7
20°-30°	4636.5	13.2
30°-40°	5625.6	16.0
40°-50°	5896.2	16.8
50°-60°	5342.8	15.2
60°-70°	3582.2	10.2
70°-80°	1608.5	4.6
80°-90°	590.9	1.7
90°-100°	431.7	1.2
100°-110°	1242.4	3.5
110°-120°	1001.2	2.9
120°-130°	477.1	1.4
130°-140°	245.7	0.7
140°-150°	145.0	0.4
150°-160°	86.7	0.2
160°-170°	46.1	0.1
170°-180°	14.1	0.0
0°-30°	8730.8	24.9
0°-40°	14356.4	40.9
0°-60°	25595.4	73.0
0°-90°	31377.0	89.5
90°-120°	2675.4	7.6
90°-150°	3543.2	10.1
90°-180°	3690.0	10.5
0°-180°	35067.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11227	11227	11227	11227	11227	
5°	11154	11193	11115	11150	11135	###
15°	10792	10750	10674	10768	10781	3047
25°	10026	9982	10052	10145	10115	4621
35°	8886	8908	8998	9094	9059	5554
45°	7375	7495	7635	7830	7854	5681
55°	5427	5688	6076	6320	6305	4844
65°	3185	3684	4182	3529	2882	3174
75°	1253	1818	1338	1369	1458	1370
85°	216	414	531	641	672	263
90°	9	184	333	411	428	18
95°	59	202	342	424	446	217
105°	1381	1409	1382	1071	983	1314
115°	972	965	1000	1019	1013	981
125°	483	502	529	525	518	455
135°	294	302	311	322	324	232
145°	218	224	228	233	235	139
155°	180	184	187	189	187	84
165°	158	160	161	162	163	45
175°	146	146	146	144	145	14
180°	143	143	143	143	143	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11227.4	11227.4	11227.4	11227.4	11227.4
2.5°	11182.0	11229.1	11170.7	11233.9	11250.1
5°	11154.4	11193.4	11115.4	11149.5	11134.9
7.5°	11104.0	11117.1	11024.5	11052.1	11022.9
10°	11029.4	11022.9	10914.1	10967.7	10974.2
12.5°	10919.0	10899.5	10802.1	10883.3	10884.9
15°	10792.4	10750.2	10673.8	10768.0	10781.0
17.5°	10646.3	10591.1	10540.8	10662.5	10643.0
20°	10475.8	10410.9	10401.1	10534.3	10485.6
22.5°	10264.8	10214.4	10237.1	10363.8	10333.0
25°	10026.1	9982.3	10052.1	10144.6	10115.4
27.5°	9774.5	9748.5	9828.1	9899.5	9842.7
30°	9498.6	9483.9	9589.5	9647.9	9576.4
32.5°	9198.2	9203.1	9303.7	9383.3	9316.7
35°	8886.5	8907.6	8998.5	9094.3	9058.6
37.5°	8544.0	8591.1	8682.0	8790.7	8753.4
40°	8181.9	8250.1	8350.8	8482.3	8448.1
42.5°	7790.7	7876.8	8006.6	8152.7	8149.4
45°	7375.1	7495.3	7634.8	7829.7	7854.0
47.5°	6943.2	7078.0	7255.0	7514.7	7552.1
50°	6474.2	6643.0	6863.8	7175.4	7198.1
52.5°	5951.4	6182.0	6474.2	6772.9	6745.2
55°	5427.0	5688.4	6076.4	6319.9	6305.3
57.5°	4904.3	5198.2	5668.9	5842.6	5841.0
60°	4319.9	4691.7	5206.3	5337.8	5207.9
62.5°	3779.3	4178.7	4712.7	4617.0	4172.1
65°	3185.1	3683.5	4181.9	3529.3	2881.6
67.5°	2657.5	3177.0	3552.0	2417.2	2069.8
70°	2126.7	2699.7	2769.5	1793.8	1769.5
72.5°	1655.8	2266.3	1910.7	1535.7	1613.7
75°	1253.3	1818.2	1337.7	1368.6	1457.8
77.5°	914.0	1396.1	1040.6	1199.7	1272.7
80°	628.2	988.6	849.0	1008.2	1058.4
82.5°	394.5	652.6	680.2	811.7	863.6
85°	215.9	414.0	530.9	641.2	672.0
87.5°	89.3	250.0	405.8	495.1	521.1
90°	9.0	183.6	333.0	411.1	428.3
92.5°	24.8	161.4	295.6	366.9	383.9
95°	59.3	201.5	341.9	424.3	445.7
97.5°	351.3	442.3	482.2	578.0	606.8
100°	752.1	823.6	726.1	758.4	781.9
102.5°	1177.2	1231.9	1048.4	909.2	886.2
105°	1380.9	1409.0	1382.2	1071.4	983.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1137.3	1151.5	1173.7	1184.6	1158.1
115°	971.5	964.9	1000.0	1019.4	1013.4
117.5°	832.8	826.7	858.5	864.6	857.6
120°	702.6	704.2	734.6	729.6	723.8
122.5°	584.4	597.4	621.7	620.6	610.1
125°	483.1	501.6	528.9	525.4	517.8
127.5°	417.8	423.4	449.4	449.6	451.2
130°	361.1	370.1	388.4	396.8	394.9
132.5°	323.6	332.6	346.8	356.1	358.9
135°	293.8	301.9	311.0	321.9	324.5
137.5°	271.2	276.7	282.3	295.2	297.7
140°	250.7	256.3	260.3	270.5	272.1
142.5°	232.4	239.5	242.6	250.2	251.9
145°	217.5	223.7	228.4	232.8	235.3
147.5°	207.9	211.6	216.3	217.2	219.8
150°	197.6	200.4	204.2	206.0	207.0
152.5°	188.3	191.1	194.9	195.8	196.7
155°	180.0	184.4	187.2	189.1	187.4
157.5°	172.5	177.0	179.8	180.7	180.7
160°	166.9	170.5	173.3	173.3	174.2
162.5°	163.0	164.9	166.8	167.7	168.6
165°	158.4	160.2	161.2	162.1	163.0
167.5°	154.7	157.2	156.5	157.4	157.4
170°	150.9	151.9	152.8	151.1	152.1
172.5°	148.1	149.1	150.0	148.3	148.3
175°	146.3	146.3	145.5	144.0	144.9
177.5°	146.0	145.4	143.7	142.1	141.4
180°	142.7	142.7	142.7	142.7	142.7



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1395.6	1421.1	1436.3	1290.6	<i>1131.9</i>
110°	1290.2	1318.5	1337.7	1299.2	<i>1229.0</i>



(END OF REPORT)