

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: P828406

Luminaire Tested: **OHBL-36SE-N-UNV-L940-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828406
REPORT IS A COMBINATION OF REPORTS P826320 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-N-UNV-L940-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

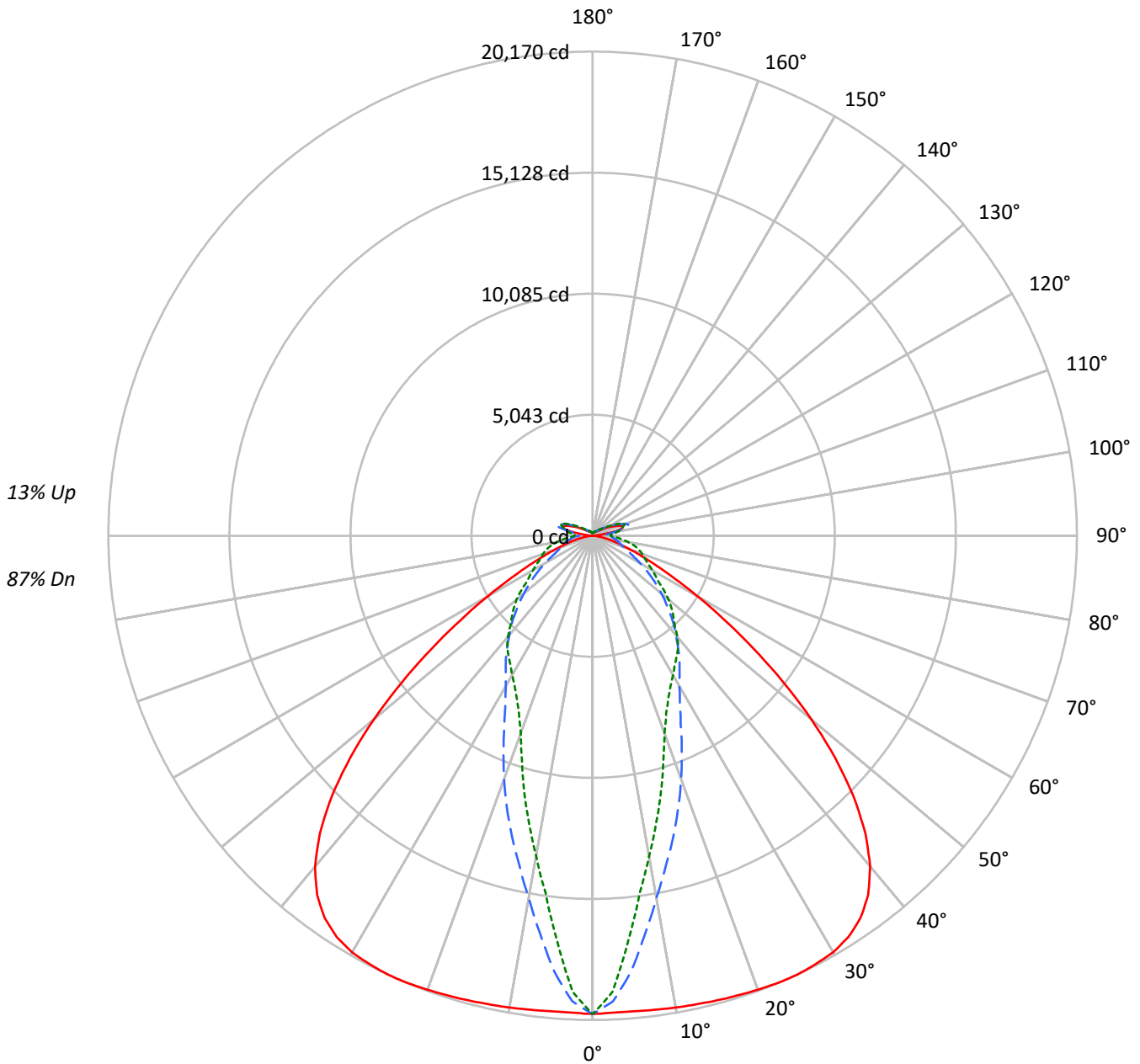
Lumens per Lamp: N/A
Luminaire Lumens: 32521.7 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87	87	87	87
1	107	102	98	95	103	99	95	92	92	89	87	86	84	82	81	79	77	75	75	75	75
2	98	91	84	79	94	88	82	77	82	78	74	77	73	70	72	69	67	64	64	64	64
3	90	81	73	68	87	78	72	66	74	68	64	69	65	61	65	62	58	56	56	56	56
4	83	73	65	59	80	71	63	58	67	60	56	63	58	53	59	55	51	49	49	49	49
5	77	66	58	52	74	64	56	51	60	54	49	57	52	47	54	50	46	44	44	44	44
6	72	60	52	46	69	58	51	45	55	49	44	52	47	43	50	45	41	39	39	39	39
7	67	55	47	41	65	53	46	41	51	44	39	48	43	38	46	41	37	35	35	35	35
8	63	50	43	37	61	49	42	37	47	40	36	45	39	35	43	38	34	32	32	32	32
9	59	47	39	34	57	46	38	34	44	37	33	42	36	32	40	35	31	29	29	29	29
10	55	43	36	31	54	42	35	31	41	34	30	39	33	29	37	32	29	27	27	27	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31511	31511	31511
5°	31314	28709	26810
10°	31534	24194	21603
15°	32011	20701	17819
20°	32764	17512	14487
25°	33738	14502	12762
30°	34730	12500	11924
35°	35258	11398	11432
40°	34445	10302	10922
45°	31470	9317	10192
50°	26337	8238	9655
55°	19820	7223	8687
60°	13723	6201	8431
65°	9088	5349	8403
70°	6074	5030	9034
75°	4081	5203	10010
80°	2661	5790	10956
85°	1387	7308	13065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1677.3	5.2
10°-20°	3945.7	12.1
20°-30°	4945.8	15.2
30°-40°	5248.1	16.1
40°-50°	4745.1	14.6
50°-60°	3440.5	10.6
60°-70°	2159.1	6.6
70°-80°	1428.8	4.4
80°-90°	829.8	2.6
90°-100°	638.0	2.0
100°-110°	1358.7	4.2
110°-120°	1066.5	3.3
120°-130°	506.6	1.6
130°-140°	252.7	0.8
140°-150°	146.3	0.4
150°-160°	82.7	0.3
160°-170°	38.3	0.1
170°-180°	11.7	0.0
0°-30°	10568.8	32.5
0°-40°	15816.9	48.6
0°-60°	24002.5	73.8
0°-90°	28420.3	87.4
90°-120°	3063.1	9.4
90°-150°	3968.8	12.2
90°-180°	4101.0	12.6
0°-180°	32521.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19925	19925	19925	19925	19925	
5°	19885	19375	18237	17391	16953	###
15°	20037	16331	12971	11536	11012	5682
25°	20170	12628	8685	7709	7464	9318
35°	19447	8395	6304	6106	6104	12089
45°	15374	5317	4568	4678	4758	11712
55°	8139	3296	2981	3233	3349	7354
65°	2911	1912	1726	2211	2458	3029
75°	899	1030	1159	1800	1908	1002
85°	157	427	848	1180	1083	189
90°	7	221	546	755	761	15
95°	62	233	576	770	811	207
105°	1299	1365	1520	1314	1238	1236
115°	916	942	1103	1162	1159	926
125°	464	487	575	596	585	435
135°	280	290	321	350	351	221
145°	212	219	227	244	243	135
155°	176	184	189	192	188	79
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°	19925.0	19925.0	19925.0	19925.0	19925.0
2.5°	19883.2	19769.4	19414.9	19198.6	19016.6
5°	19885.2	19375.0	18237.2	17391.4	16953.4
7.5°	19913.6	18779.6	16729.6	15495.1	15013.4
10°	19957.2	18041.8	15322.5	14006.5	13557.0
12.5°	19989.4	17211.3	14084.2	12732.1	12239.1
15°	20036.9	16331.4	12971.1	11535.5	11012.1
17.5°	20080.4	15502.6	11871.1	10371.2	9789.0
20°	20124.1	14609.4	10771.3	9225.8	8746.0
22.5°	20165.8	13667.0	9698.0	8336.3	8008.3
25°	20169.5	12627.8	8685.3	7708.7	7464.0
27.5°	20120.2	11550.7	7864.1	7183.4	7031.6
30°	20035.0	10505.8	7227.0	6804.1	6696.0
32.5°	19822.6	9440.0	6733.9	6438.1	6375.5
35°	19447.0	8395.2	6303.5	6106.3	6104.4
37.5°	18855.4	7467.8	5836.9	5802.8	5844.6
40°	17981.2	6656.2	5395.1	5486.1	5486.1
42.5°	16815.0	5950.7	4995.0	5087.9	5063.3
45°	15373.7	5317.3	4568.3	4678.3	4757.9
47.5°	13703.1	4759.9	4132.1	4344.5	4454.5
50°	11886.3	4228.9	3733.9	4005.1	4130.3
52.5°	9982.4	3737.7	3345.2	3656.2	3756.7
55°	8139.1	3295.9	2981.1	3233.3	3348.9
57.5°	6470.3	2874.9	2624.6	2863.5	3102.4
60°	5034.8	2512.7	2288.9	2630.2	2869.2
62.5°	3845.8	2190.3	1974.1	2412.2	2651.1
65°	2910.9	1911.6	1725.7	2211.2	2457.7
67.5°	2194.0	1670.7	1532.2	2065.1	2305.9
70°	1647.9	1437.5	1376.8	1974.1	2190.3
72.5°	1217.5	1223.1	1253.5	1894.4	2059.5
75°	898.8	1029.7	1158.7	1799.7	1907.7
77.5°	642.9	853.4	1073.3	1685.9	1723.8
80°	445.7	696.0	984.2	1536.0	1503.8
82.5°	278.7	557.5	904.6	1371.0	1281.9
85°	157.4	426.6	847.7	1179.5	1082.8
87.5°	70.2	318.6	741.5	919.7	859.0
90°	7.0	220.8	545.9	754.8	761.3
92.5°	25.6	200.1	520.2	716.9	741.0
95°	61.5	233.0	575.8	770.4	810.9
97.5°	334.6	459.5	709.3	908.7	952.3
100°	709.6	815.0	929.2	1062.5	1098.8
102.5°	1107.1	1199.6	1219.7	1182.1	1171.2
105°	1299.3	1365.0	1519.9	1313.6	1238.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1071.0	1119.1	1282.1	1341.2	1322.9
115°	916.4	942.1	1102.7	1161.9	1158.9
117.5°	788.8	808.5	950.0	994.0	986.4
120°	667.0	689.7	812.2	839.9	832.9
122.5°	556.6	583.9	684.9	708.4	695.2
125°	463.6	486.8	575.0	595.6	585.0
127.5°	399.1	408.1	482.8	505.1	503.1
130°	346.0	356.8	411.9	440.1	438.4
132.5°	307.6	318.4	361.2	390.4	393.0
135°	279.8	289.7	321.3	350.5	351.3
137.5°	257.2	268.1	288.5	317.5	318.4
140°	238.1	247.1	263.7	289.9	289.9
142.5°	224.3	231.4	243.4	264.9	264.9
145°	212.3	218.6	226.7	244.5	243.4
147.5°	201.9	209.1	215.4	225.7	224.7
150°	192.3	200.6	204.1	211.5	210.5
152.5°	183.6	191.9	195.4	200.1	199.0
155°	175.8	184.1	188.6	192.2	188.4
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°	1311.5	1376.7	1555.9	1490.0	1351.9
110°	1213.4	1277.8	1451.3	1471.9	1416.4



(END OF REPORT)