

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: P830773

Luminaire Tested: **OHBL-72SE-MFL-UNV-L940-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-72SE-MFL-UNV-L940-CD
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

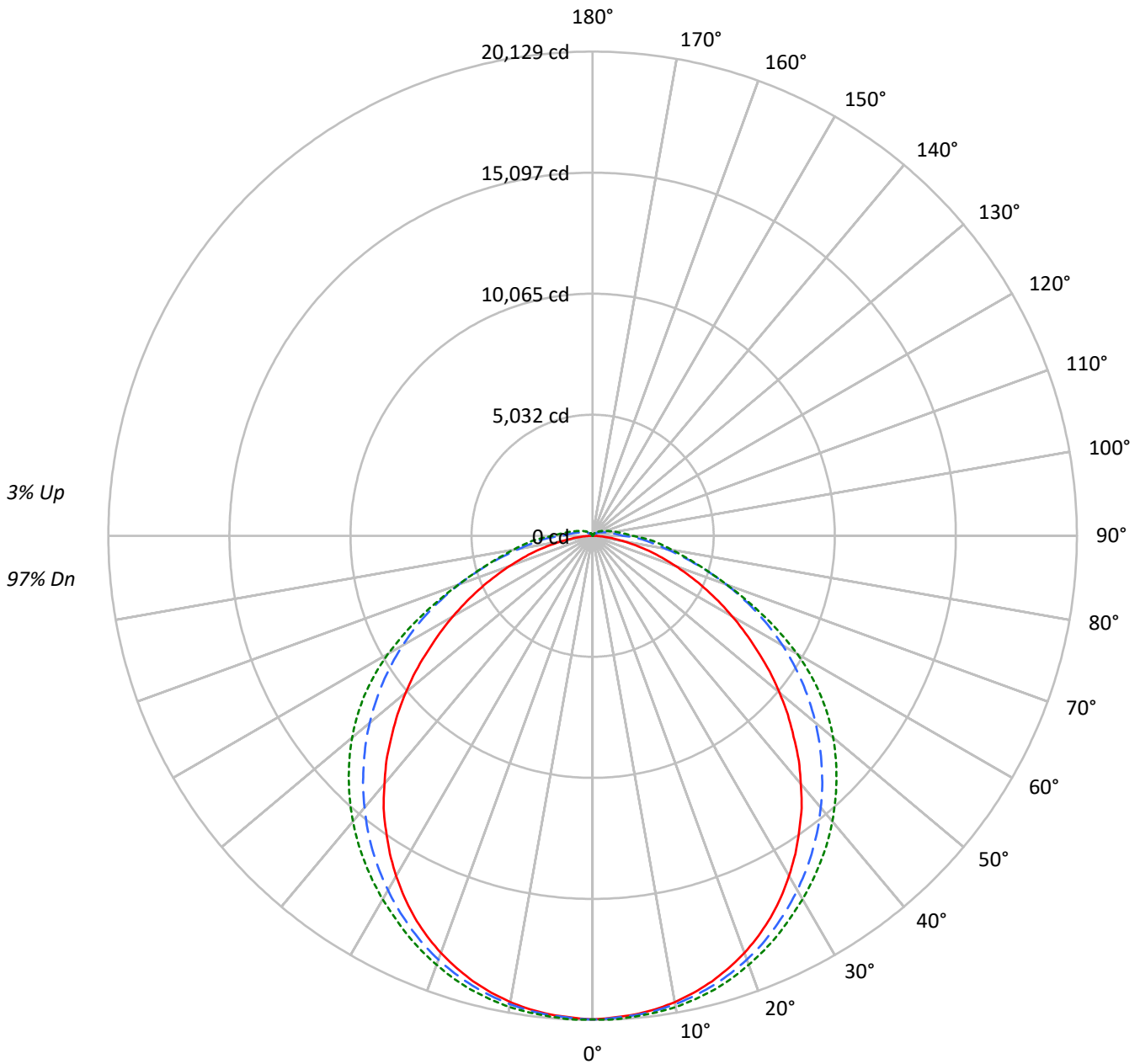
Lumens per Lamp: N/A
Luminaire Lumens: 60185.0 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 413.7
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31803	31803	31803
5°	31600	31502	31598
10°	31378	31224	31433
15°	31027	30892	31216
20°	30562	30486	30898
25°	29941	29978	30576
30°	29080	29428	30252
35°	28039	28843	29973
40°	26788	28167	29698
45°	25313	27432	29347
50°	23699	26689	28921
55°	21715	25779	28200
60°	19683	24709	26763
65°	17466	23340	24400
70°	15061	21596	21842
75°	12628	19581	20114
80°	9574	18124	19954
85°	6057	18838	22298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1905.5	3.2
10°-20°	5466.6	9.1
20°-30°	8267.3	13.7
30°-40°	9925.0	16.5
40°-50°	10250.9	17.0
50°-60°	9222.6	15.3
60°-70°	6947.2	11.5
70°-80°	4195.0	7.0
80°-90°	2051.7	3.4
90°-100°	863.6	1.4
100°-110°	493.0	0.8
110°-120°	289.4	0.5
120°-130°	163.7	0.3
130°-140°	86.2	0.1
140°-150°	41.9	0.1
150°-160°	15.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	15639.4	26.0
0°-40°	25564.4	42.5
0°-60°	45037.9	74.8
0°-90°	58231.7	96.8
90°-120°	1646.0	2.7
90°-150°	1937.7	3.2
90°-180°	1953.0	3.2
0°-180°	60185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20110	20110	20110	20110	20110	
5°	19982	20036	20011	20090	20065	###
15°	19175	19268	19357	19519	19539	5406
25°	17511	17703	17954	18235	18279	8055
35°	14972	15321	15951	16433	16532	9359
45°	11817	12412	13451	14184	14337	9123
55°	8372	9238	10640	11443	11581	7506
65°	5109	6152	7530	7904	7816	5075
75°	2407	3455	4361	4474	4430	2567
85°	502	1324	2185	2485	2530	580
90°	0	517	1250	1575	1639	32
95°	25	349	935	1191	1235	21
105°	34	202	541	709	738	34
115°	39	113	335	448	468	40
125°	39	54	202	290	305	35
135°	34	44	103	177	197	27
145°	49	44	49	89	103	29
155°	49	54	49	44	49	15
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20109.7	20109.7	20109.7	20109.7	20109.7
2.5°	20050.7	20099.9	20070.4	20134.3	20129.4
5°	19981.8	20035.9	20011.3	20090.0	20065.4
7.5°	19863.6	19922.7	19917.8	20006.4	19996.5
10°	19691.4	19755.4	19775.1	19893.2	19893.2
12.5°	19455.1	19538.8	19588.0	19730.8	19735.7
15°	19174.6	19268.1	19356.7	19519.1	19538.8
17.5°	18835.0	18953.1	19076.2	19263.2	19287.8
20°	18451.1	18584.0	18751.4	18948.2	18977.8
22.5°	18008.2	18165.7	18382.2	18613.6	18648.0
25°	17511.1	17703.1	17954.1	18234.6	18278.9
27.5°	16945.1	17166.6	17506.2	17821.2	17860.5
30°	16329.9	16590.8	17014.0	17388.1	17452.1
32.5°	15680.3	15980.5	16502.2	16920.5	17009.1
35°	14971.6	15321.0	15951.0	16433.3	16531.7
37.5°	14272.7	14656.6	15370.2	15921.4	16039.5
40°	13455.7	13933.1	14750.1	15360.4	15503.1
42.5°	12687.9	13204.7	14130.0	14794.4	14932.2
45°	11816.8	12412.3	13450.8	14184.1	14336.7
47.5°	10999.8	11644.5	12796.2	13554.1	13711.6
50°	10138.5	10847.2	12097.3	12889.7	13052.1
52.5°	9277.2	10040.1	11373.9	12195.8	12348.3
55°	8371.7	9237.9	10640.5	11442.8	11580.6
57.5°	7530.1	8445.5	9887.5	10650.4	10734.0
60°	6698.3	7648.2	9119.8	9789.1	9818.6
62.5°	5886.3	6885.3	8332.3	8863.8	8824.5
65°	5108.6	6152.0	7530.1	7904.1	7815.5
67.5°	4360.6	5438.4	6708.2	6949.3	6831.2
70°	3651.8	4744.4	5910.9	6033.9	5925.6
72.5°	3026.8	4084.9	5103.7	5207.1	5128.3
75°	2406.7	3455.0	4360.6	4473.7	4429.5
77.5°	1825.9	2844.7	3676.4	3824.1	3833.9
80°	1314.1	2288.6	3080.9	3312.2	3341.8
82.5°	866.2	1776.7	2583.8	2879.1	2923.4
85°	502.0	1323.9	2185.2	2485.4	2529.7
87.5°	216.6	954.8	1757.0	2027.7	2081.8
90°	0.0	516.8	1250.1	1574.9	1638.9
92.5°	14.8	428.2	1072.9	1368.2	1422.3
95°	24.6	349.4	935.1	1191.0	1235.3
97.5°	29.5	295.3	812.1	1038.5	1082.8
100°	29.5	255.9	703.8	910.5	949.9
102.5°	29.5	226.4	615.2	797.3	831.8
105°	34.5	201.8	541.4	708.7	738.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	39.4	132.9	374.0	502.0	521.7
115°	39.4	113.2	334.7	447.9	467.6
117.5°	44.3	98.4	295.3	403.6	418.3
120°	44.3	83.7	260.8	359.3	379.0
122.5°	44.3	68.9	231.3	324.8	339.6
125°	39.4	54.1	201.8	290.4	305.1
127.5°	34.5	44.3	172.3	260.8	275.6
130°	34.5	39.4	147.6	231.3	246.1
132.5°	34.5	44.3	123.0	201.8	221.5
135°	34.5	44.3	103.4	177.2	196.9
137.5°	34.5	44.3	83.7	152.6	172.3
140°	39.4	44.3	68.9	128.0	147.6
142.5°	44.3	44.3	54.1	108.3	123.0
145°	49.2	44.3	49.2	88.6	103.4
147.5°	49.2	49.2	49.2	68.9	83.7
150°	49.2	54.1	49.2	54.1	68.9
152.5°	49.2	54.1	49.2	44.3	54.1
155°	49.2	54.1	49.2	44.3	49.2
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	34.5	177.2	477.4	630.0	654.6
110°	34.5	157.5	423.3	561.1	585.7



(END OF REPORT)