

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: P830701

Luminaire Tested: **OHBL-60SE-MFL-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830701
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-60SE-MFL-UNV-L940-CD
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

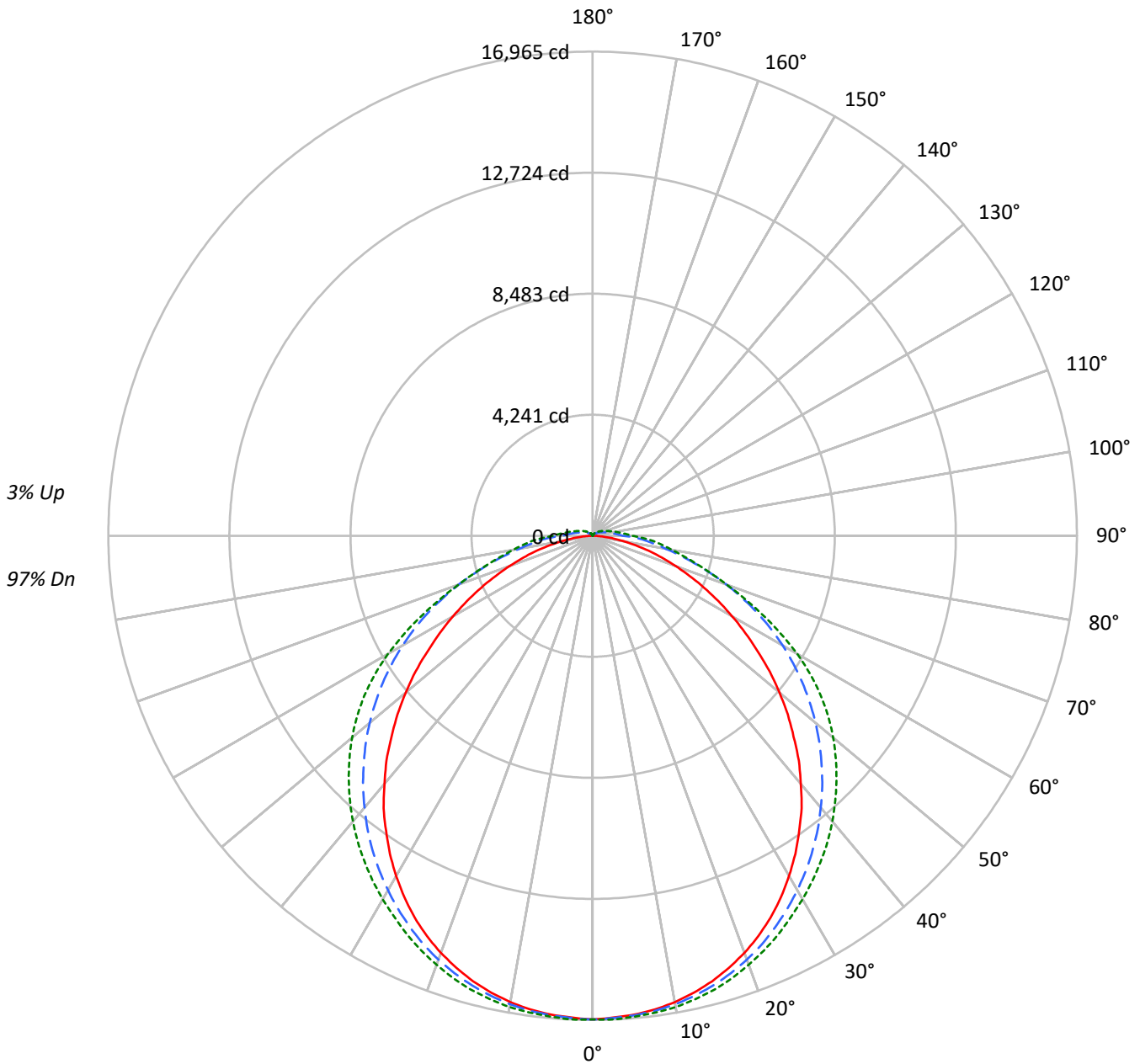
Lumens per Lamp: N/A
Luminaire Lumens: 50724.0 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 362
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

TEST NUMBER: P830701

CATALOG NUMBER: OHBL-60SE-MFL-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830701

CATALOG NUMBER: OHBL-60SE-MFL-UNV-L940-CD

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	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	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28948	28948	28948
5°	28763	28661	28743
10°	28561	28395	28574
15°	28242	28080	28358
20°	27818	27698	28051
25°	27253	27223	27739
30°	26470	26709	27425
35°	25522	26164	27150
40°	24383	25534	26877
45°	23040	24850	26532
50°	21572	24158	26117
55°	19766	23312	25431
60°	17916	22317	24094
65°	15898	21049	21919
70°	13709	19436	19564
75°	11494	17571	17940
80°	8714	16186	17676
85°	5513	16673	19494



TEST NUMBER: P830701

CATALOG NUMBER: OHBL-60SE-MFL-UNV-L940-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1606.0	3.2
10°-20°	4607.3	9.1
20°-30°	6967.7	13.7
30°-40°	8364.8	16.5
40°-50°	8639.5	17.0
50°-60°	7772.8	15.3
60°-70°	5855.1	11.5
70°-80°	3535.5	7.0
80°-90°	1729.2	3.4
90°-100°	727.8	1.4
100°-110°	415.5	0.8
110°-120°	243.9	0.5
120°-130°	137.9	0.3
130°-140°	72.6	0.1
140°-150°	35.3	0.1
150°-160°	13.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	13180.9	26.0
0°-40°	21545.7	42.5
0°-60°	37958.0	74.8
0°-90°	49077.8	96.8
90°-120°	1387.2	2.7
90°-150°	1633.1	3.2
90°-180°	1646.0	3.2
0°-180°	50724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16948	16948	16948	16948	16948	
5°	16841	16886	16866	16932	16911	###
15°	16160	16239	16314	16451	16467	4556
25°	14758	14920	15132	15368	15406	6788
35°	12618	12913	13444	13850	13933	7888
45°	9959	10461	11336	11954	12083	7689
55°	7056	7786	8968	9644	9760	6326
65°	4306	5185	6346	6662	6587	4278
75°	2028	2912	3675	3770	3733	2164
85°	423	1116	1842	2095	2132	489
90°	0	436	1054	1327	1381	27
95°	21	294	788	1004	1041	17
105°	29	170	456	597	622	29
115°	33	95	282	378	394	34
125°	33	46	170	245	257	30
135°	29	37	87	149	166	23
145°	42	37	42	75	87	25
155°	42	46	42	37	42	13
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830701

CATALOG NUMBER: OHBL-60SE-MFL-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16948.5	16948.5	16948.5	16948.5	16948.5
2.5°	16898.7	16940.2	16915.3	16969.2	16965.1
5°	16840.7	16886.3	16865.5	16931.9	16911.2
7.5°	16741.1	16790.9	16786.7	16861.4	16853.1
10°	16595.9	16649.9	16666.4	16766.0	16766.0
12.5°	16396.8	16467.3	16508.8	16629.1	16633.3
15°	16160.4	16239.2	16313.9	16450.7	16467.3
17.5°	15874.2	15973.7	16077.4	16235.1	16255.8
20°	15550.6	15662.6	15803.7	15969.6	15994.5
22.5°	15177.3	15310.1	15492.6	15687.5	15716.6
25°	14758.4	14920.2	15131.7	15368.1	15405.5
27.5°	14281.4	14468.0	14754.2	15019.7	15052.9
30°	13762.9	13982.7	14339.4	14654.7	14708.6
32.5°	13215.4	13468.4	13908.1	14260.6	14335.3
35°	12618.0	12912.6	13443.5	13850.0	13932.9
37.5°	12029.0	12352.6	12954.0	13418.6	13518.2
40°	11340.5	11742.8	12431.4	12945.7	13066.0
42.5°	10693.4	11128.9	11908.7	12468.7	12584.9
45°	9959.2	10461.1	11336.3	11954.4	12083.0
47.5°	9270.7	9814.0	10784.7	11423.4	11556.2
50°	8544.8	9142.1	10195.6	10863.5	11000.3
52.5°	7818.9	8461.8	9585.9	10278.6	10407.2
55°	7055.7	7785.7	8967.9	9644.0	9760.1
57.5°	6346.4	7117.9	8333.2	8976.2	9046.7
60°	5645.4	6445.9	7686.1	8250.3	8275.1
62.5°	4960.9	5803.0	7022.5	7470.4	7437.3
65°	4305.6	5184.9	6346.4	6661.6	6586.9
67.5°	3675.1	4583.5	5653.6	5856.9	5757.3
70°	3077.8	3998.6	4981.7	5085.4	4994.1
72.5°	2551.0	3442.8	4301.4	4388.5	4322.2
75°	2028.3	2911.9	3675.1	3770.5	3733.2
77.5°	1538.9	2397.5	3098.5	3223.0	3231.2
80°	1107.5	1928.8	2596.6	2791.6	2816.5
82.5°	730.0	1497.4	2177.7	2426.5	2463.9
85°	423.1	1115.8	1841.7	2094.7	2132.0
87.5°	182.5	804.7	1480.8	1709.0	1754.6
90°	0.0	435.5	1053.6	1327.3	1381.3
92.5°	12.4	360.9	904.3	1153.1	1198.8
95°	20.7	294.5	788.1	1003.8	1041.1
97.5°	24.9	248.9	684.4	875.2	912.5
100°	24.9	215.7	593.2	767.4	800.6
102.5°	24.9	190.8	518.5	672.0	701.0
105°	29.0	170.1	456.3	597.3	622.2



TEST NUMBER: P830701

CATALOG NUMBER: OHBL-60SE-MFL-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	33.2	112.0	315.2	423.1	439.7
115°	33.2	95.4	282.1	377.5	394.1
117.5°	37.3	83.0	248.9	340.1	352.6
120°	37.3	70.5	219.8	302.8	319.4
122.5°	37.3	58.1	195.0	273.8	286.2
125°	33.2	45.6	170.1	244.7	257.2
127.5°	29.0	37.3	145.2	219.8	232.3
130°	29.0	33.2	124.4	195.0	207.4
132.5°	29.0	37.3	103.7	170.1	186.7
135°	29.0	37.3	87.1	149.3	165.9
137.5°	29.0	37.3	70.5	128.6	145.2
140°	33.2	37.3	58.1	107.8	124.4
142.5°	37.3	37.3	45.6	91.3	103.7
145°	41.5	37.3	41.5	74.7	87.1
147.5°	41.5	41.5	41.5	58.1	70.5
150°	41.5	45.6	41.5	45.6	58.1
152.5°	41.5	45.6	41.5	37.3	45.6
155°	41.5	45.6	41.5	37.3	41.5
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°	29.0	149.3	402.4	530.9	551.7
110°	29.0	132.7	356.7	472.9	493.6



(END OF REPORT)