

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: P830709

Luminaire Tested: **OHBL-60SE-N-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-60SE-N-UNV-L840-CD
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

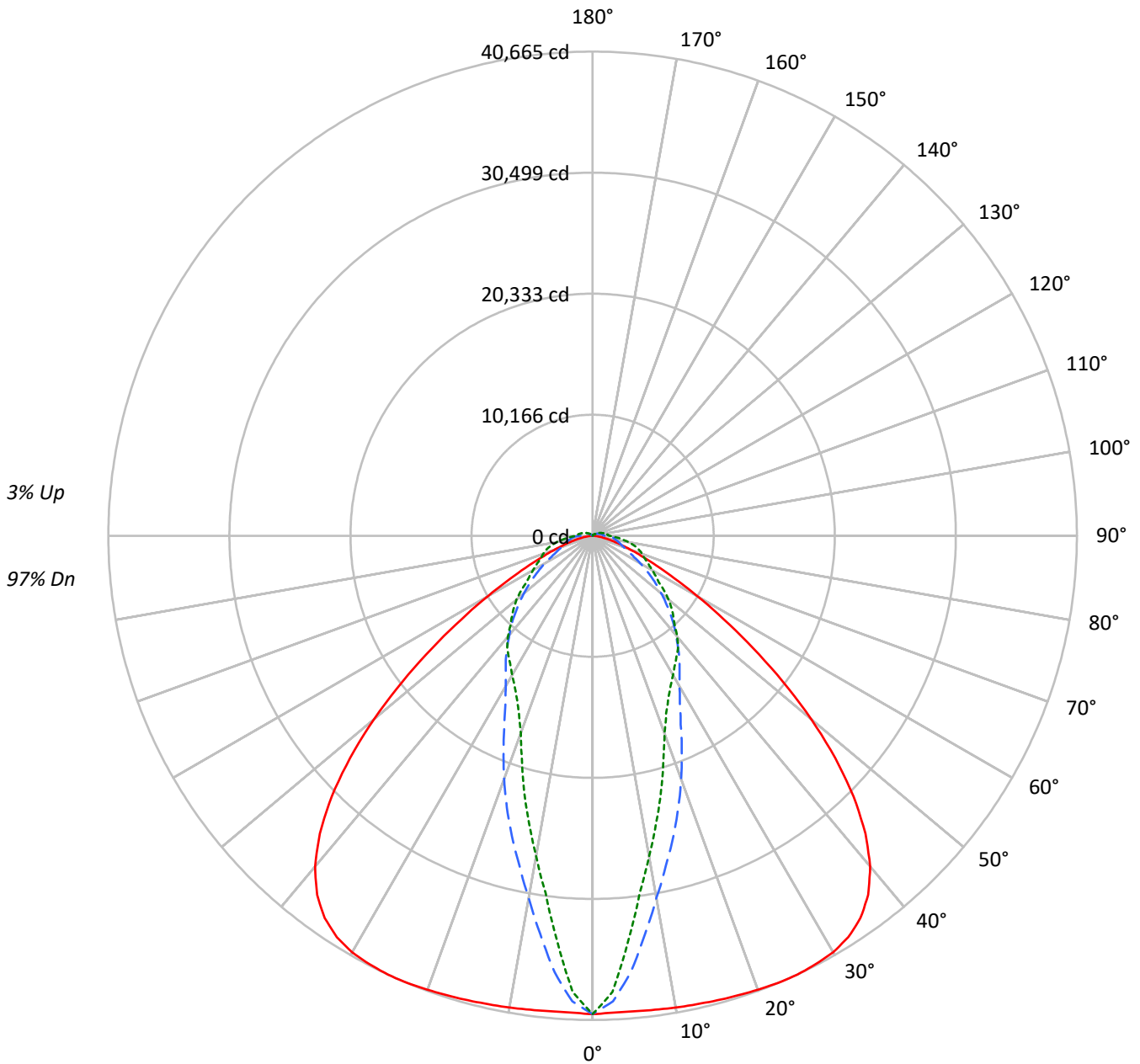
Lumens per Lamp: N/A
Luminaire Lumens: 59289.0 lumens
Efficiency: N/A
Efficacy: 163.8 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

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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	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	99	99	99	97		
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	85	85	85	82		
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	73	73	73	71		
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	64	64	64	62		
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	56	56	56	54		
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	50	50	50	48		
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	45	45	45	43		
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	41	41	41	39		
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	37	37	37	35		
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	34	34	34	32		
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	32	32	32	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	68613	68613	68613
5°	68473	62483	58094
10°	69245	52632	46583
15°	70598	45013	38234
20°	72581	38060	30924
25°	75091	31503	27096
30°	77687	27140	25172
35°	79303	24734	23982
40°	77946	22342	22752
45°	71707	20190	21064
50°	60499	17837	19770
55°	45970	15623	17593
60°	32215	13399	16843
65°	21670	11539	16489
70°	14799	10830	17299
75°	10269	11168	18483
80°	7070	12369	19028
85°	4135	15472	19962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3381.6	5.7
10°-20°	7955.0	13.4
20°-30°	9971.5	16.8
30°-40°	10580.9	17.8
40°-50°	9566.8	16.1
50°-60°	6936.6	11.7
60°-70°	4353.0	7.3
70°-80°	2880.7	4.9
80°-90°	1659.6	2.8
90°-100°	804.0	1.4
100°-110°	554.9	0.9
110°-120°	342.4	0.6
120°-130°	165.9	0.3
130°-140°	76.3	0.1
140°-150°	41.7	0.1
150°-160°	18.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	21308.1	35.9
0°-40°	31889.0	53.8
0°-60°	48392.4	81.6
0°-90°	57285.7	96.6
90°-120°	1701.4	2.9
90°-150°	1985.2	3.3
90°-180°	2003.0	3.4
0°-180°	59289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	40172	40172	40172	40172	40172	
5°	40091	39063	36769	35064	34180	###
15°	40397	32926	26151	23257	22202	11456
25°	40665	25459	17511	15542	15048	18786
35°	39208	16926	12709	12311	12307	24374
45°	30996	10720	9210	9432	9593	23612
55°	16410	6645	6010	6519	6752	14827
65°	5869	3854	3479	4458	4955	6107
75°	1812	2076	2336	3628	3846	2020
85°	317	860	1709	2378	2183	380
90°	0	359	990	1396	1407	20
95°	15	252	872	1185	1239	14
105°	31	168	635	841	864	31
115°	42	118	428	535	547	41
125°	46	61	218	275	272	40
135°	38	46	96	149	149	30
145°	46	50	57	88	84	28
155°	46	57	61	65	57	14
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°	40171.5	40171.5	40171.5	40171.5	40171.5
2.5°	40087.3	39857.9	39143.0	38707.1	38340.1
5°	40091.2	39062.7	36768.7	35063.5	34180.3
7.5°	40148.5	37862.2	33729.2	31240.2	30269.1
10°	40236.5	36374.9	30892.3	28238.9	27332.8
12.5°	40301.5	34700.3	28395.7	25669.7	24675.6
15°	40397.0	32926.3	26151.4	23257.2	22201.9
17.5°	40485.0	31255.5	23933.9	20909.7	19735.9
20°	40572.9	29454.7	21716.4	18600.4	17633.1
22.5°	40657.0	27554.6	19552.4	16807.2	16145.8
25°	40664.7	25459.4	17510.7	15541.7	15048.5
27.5°	40565.3	23287.7	15855.2	14482.7	14176.8
30°	40393.2	21181.1	14570.6	13718.0	13500.1
32.5°	39965.0	19032.4	13576.6	12980.1	12853.9
35°	39208.0	16925.8	12708.7	12311.0	12307.2
37.5°	38015.1	15056.2	11768.1	11699.3	11783.4
40°	36252.6	13419.8	10877.3	11060.8	11060.8
42.5°	33901.2	11997.5	10070.6	10257.9	10208.2
45°	30995.5	10720.5	9210.3	9432.1	9592.7
47.5°	27627.2	9596.5	8331.0	8759.2	8980.9
50°	23964.5	8526.0	7528.1	8074.8	8327.2
52.5°	20125.9	7535.7	6744.3	7371.3	7574.0
55°	16409.6	6644.9	6010.2	6518.7	6752.0
57.5°	13045.1	5796.1	5291.5	5773.2	6254.9
60°	10150.9	5065.9	4614.7	5302.9	5784.7
62.5°	7753.7	4415.9	3980.1	4863.2	5345.0
65°	5868.8	3853.9	3479.2	4458.0	4955.0
67.5°	4423.6	3368.3	3089.2	4163.6	4649.1
70°	3322.5	2898.1	2775.7	3980.1	4415.9
72.5°	2454.6	2466.0	2527.2	3819.5	4152.1
75°	1812.2	2076.1	2336.0	3628.3	3846.2
77.5°	1296.1	1720.5	2164.0	3398.9	3475.4
80°	898.5	1403.2	1984.3	3096.9	3031.9
82.5°	562.0	1124.1	1823.7	2764.2	2584.6
85°	317.3	860.2	1709.0	2378.1	2183.1
87.5°	141.5	642.3	1494.9	1854.3	1732.0
90°	0.0	359.4	990.2	1395.5	1407.0
92.5°	7.6	298.2	913.8	1277.0	1315.2
95°	15.3	252.3	871.7	1185.2	1238.8
97.5°	19.1	221.8	818.2	1101.1	1147.0
100°	22.9	198.8	753.2	1013.2	1051.4
102.5°	26.8	183.5	692.0	921.4	952.0
105°	30.6	168.2	634.7	841.1	864.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	38.2	130.0	477.9	604.1	623.2
115°	42.1	118.5	428.2	535.3	546.7
117.5°	45.9	103.2	374.7	470.3	474.1
120°	45.9	91.8	321.2	401.4	401.4
122.5°	45.9	76.5	267.6	332.6	328.8
125°	45.9	61.2	217.9	275.3	271.5
127.5°	42.1	49.7	175.9	229.4	225.6
130°	42.1	49.7	141.5	195.0	195.0
132.5°	38.2	45.9	114.7	168.2	168.2
135°	38.2	45.9	95.6	149.1	149.1
137.5°	38.2	49.7	80.3	130.0	130.0
140°	38.2	45.9	68.8	114.7	114.7
142.5°	42.1	45.9	61.2	99.4	99.4
145°	45.9	49.7	57.3	87.9	84.1
147.5°	45.9	53.5	57.3	76.5	72.6
150°	45.9	57.3	57.3	68.8	65.0
152.5°	45.9	57.3	57.3	65.0	61.2
155°	45.9	57.3	61.2	65.0	57.3
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°	30.6	156.8	581.1	753.2	780.0
110°	34.4	141.5	531.4	672.9	699.7



(END OF REPORT)