

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: P830710

Luminaire Tested: **OHBL-60SE-N-UNV-L850-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830710  
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-L850-CD  
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

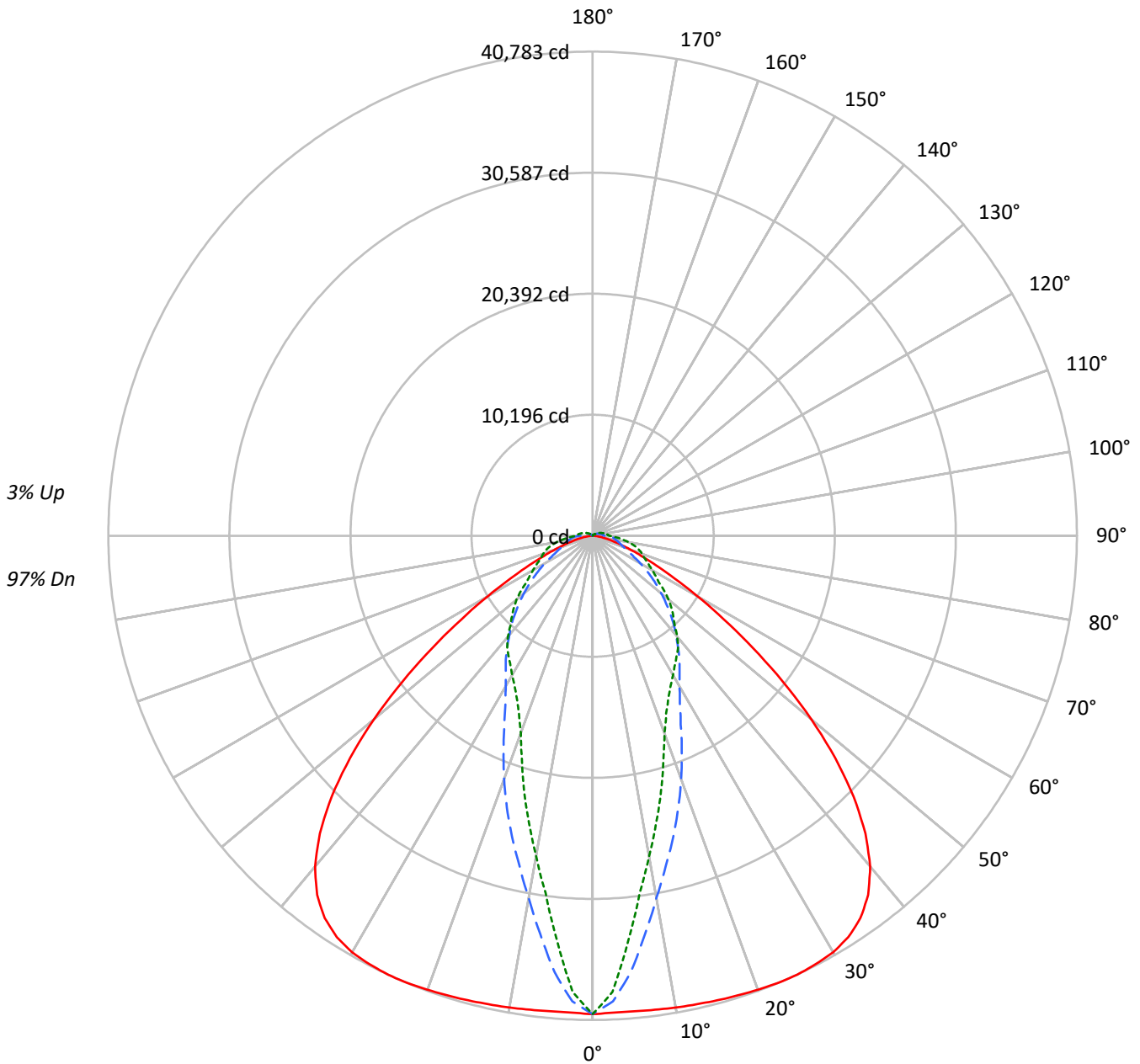
Lumens per Lamp: N/A  
Luminaire Lumens: 59461.0 lumens  
Efficiency: N/A  
Efficacy: 164.3 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 362  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	68811	68811	68811
5°	68671	62665	58263
10°	69446	52785	46718
15°	70802	45144	38345
20°	72791	38171	31014
25°	75309	31594	27175
30°	77912	27219	25245
35°	79533	24805	24051
40°	78172	22407	22818
45°	71915	20249	21125
50°	60674	17889	19827
55°	46103	15669	17644
60°	32309	13438	16891
65°	21733	11573	16537
70°	14842	10861	17349
75°	10299	11201	18536
80°	7090	12405	19083
85°	4148	15517	20019



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3391.4	5.7
10°-20°	7978.1	13.4
20°-30°	10000.4	16.8
30°-40°	10611.6	17.8
40°-50°	9594.6	16.1
50°-60°	6956.7	11.7
60°-70°	4365.7	7.3
70°-80°	2889.1	4.9
80°-90°	1664.4	2.8
90°-100°	806.4	1.4
100°-110°	556.6	0.9
110°-120°	343.4	0.6
120°-130°	166.3	0.3
130°-140°	76.5	0.1
140°-150°	41.8	0.1
150°-160°	18.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	21369.9	35.9
0°-40°	31981.5	53.8
0°-60°	48532.7	81.6
0°-90°	57451.9	96.6
90°-120°	1706.4	2.9
90°-150°	1991.0	3.3
90°-180°	2009.0	3.4
0°-180°	59461.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	40288	40288	40288	40288	40288	
5°	40208	39176	36875	35165	34280	###
15°	40514	33022	26227	23325	22266	11489
25°	40783	25533	17562	15587	15092	18841
35°	39322	16975	12746	12347	12343	24444
45°	31085	10752	9237	9460	9620	23681
55°	16457	6664	6028	6538	6772	14870
65°	5886	3865	3489	4471	4969	6125
75°	1818	2082	2343	3639	3857	2026
85°	318	863	1714	2385	2189	382
90°	0	360	993	1400	1411	21
95°	15	253	874	1189	1242	14
105°	31	169	636	844	867	31
115°	42	119	430	537	548	41
125°	46	61	219	276	272	40
135°	38	46	96	150	150	30
145°	46	50	58	88	84	28
155°	46	58	61	65	58	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°	40288.0	40288.0	40288.0	40288.0	40288.0
2.5°	40203.6	39973.6	39256.5	38819.4	38451.3
5°	40207.5	39176.0	36875.4	35165.2	34279.5
7.5°	40265.0	37972.0	33827.0	31330.8	30356.9
10°	40353.2	36480.4	30981.9	28320.8	27412.1
12.5°	40418.4	34801.0	28478.1	25744.1	24747.2
15°	40514.2	33021.8	26227.3	23324.6	22266.3
17.5°	40602.4	31346.2	24003.3	20970.3	19793.2
20°	40690.6	29540.2	21779.4	18654.3	17684.2
22.5°	40775.0	27634.5	19609.1	16856.0	16192.7
25°	40782.6	25533.2	17561.5	15586.8	15092.2
27.5°	40682.9	23355.3	15901.2	14524.7	14217.9
30°	40510.4	21242.6	14612.9	13757.8	13539.3
32.5°	40080.9	19087.6	13615.9	13017.8	12891.2
35°	39321.7	16974.9	12745.5	12346.8	12342.9
37.5°	38125.4	15099.9	11802.3	11733.3	11817.6
40°	36357.7	13458.7	10908.9	11092.9	11092.9
42.5°	33999.6	12032.3	10099.8	10287.7	10237.8
45°	31085.4	10751.6	9237.1	9459.5	9620.5
47.5°	27707.3	9624.3	8355.1	8784.6	9007.0
50°	24034.0	8550.7	7549.9	8098.2	8351.3
52.5°	20184.3	7557.6	6763.9	7392.7	7595.9
55°	16457.2	6664.2	6027.7	6537.6	6771.5
57.5°	13083.0	5812.9	5306.8	5789.9	6273.1
60°	10180.3	5080.6	4628.1	5318.3	5801.4
62.5°	7776.2	4428.7	3991.6	4877.4	5360.5
65°	5885.8	3865.1	3489.3	4470.9	4969.4
67.5°	4436.4	3378.1	3098.2	4175.7	4662.6
70°	3332.1	2906.5	2783.8	3991.6	4428.7
72.5°	2461.7	2473.2	2534.5	3830.6	4164.2
75°	1817.5	2082.1	2342.8	3638.8	3857.4
77.5°	1299.9	1725.5	2170.3	3408.8	3485.5
80°	901.1	1407.2	1990.1	3105.9	3040.7
82.5°	563.7	1127.3	1829.0	2772.3	2592.1
85°	318.3	862.7	1714.0	2385.0	2189.4
87.5°	141.9	644.2	1499.2	1859.7	1737.0
90°	0.0	360.4	993.1	1399.6	1411.1
92.5°	7.7	299.1	916.4	1280.7	1319.0
95°	15.3	253.1	874.2	1188.7	1242.3
97.5°	19.2	222.4	820.6	1104.3	1150.3
100°	23.0	199.4	755.4	1016.1	1054.5
102.5°	26.8	184.1	694.0	924.1	954.8
105°	30.7	168.7	636.5	843.6	866.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	38.3	130.4	479.3	605.8	625.0
115°	42.2	118.9	429.5	536.8	548.3
117.5°	46.0	103.5	375.8	471.6	475.5
120°	46.0	92.0	322.1	402.6	402.6
122.5°	46.0	76.7	268.4	333.6	329.8
125°	46.0	61.4	218.6	276.1	272.2
127.5°	42.2	49.8	176.4	230.1	226.2
130°	42.2	49.8	141.9	195.6	195.6
132.5°	38.3	46.0	115.0	168.7	168.7
135°	38.3	46.0	95.9	149.5	149.5
137.5°	38.3	49.8	80.5	130.4	130.4
140°	38.3	46.0	69.0	115.0	115.0
142.5°	42.2	46.0	61.4	99.7	99.7
145°	46.0	49.8	57.5	88.2	84.4
147.5°	46.0	53.7	57.5	76.7	72.9
150°	46.0	57.5	57.5	69.0	65.2
152.5°	46.0	57.5	57.5	65.2	61.4
155°	46.0	57.5	61.4	65.2	57.5
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°	30.7	157.2	582.8	755.4	782.2
110°	34.5	141.9	533.0	674.9	701.7



(END OF REPORT)