

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: P860252

Luminaire Tested: **SPHB-60SE-W-L750-CD**

Issue Date: 7/11/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P860252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-343-6)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SPHB-60SE-W-L750-CD
Description: 60000 Lumen Standard Efficacy Select Pro High Bay with Wide Lens and, 5000K 70CRI LEDs
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

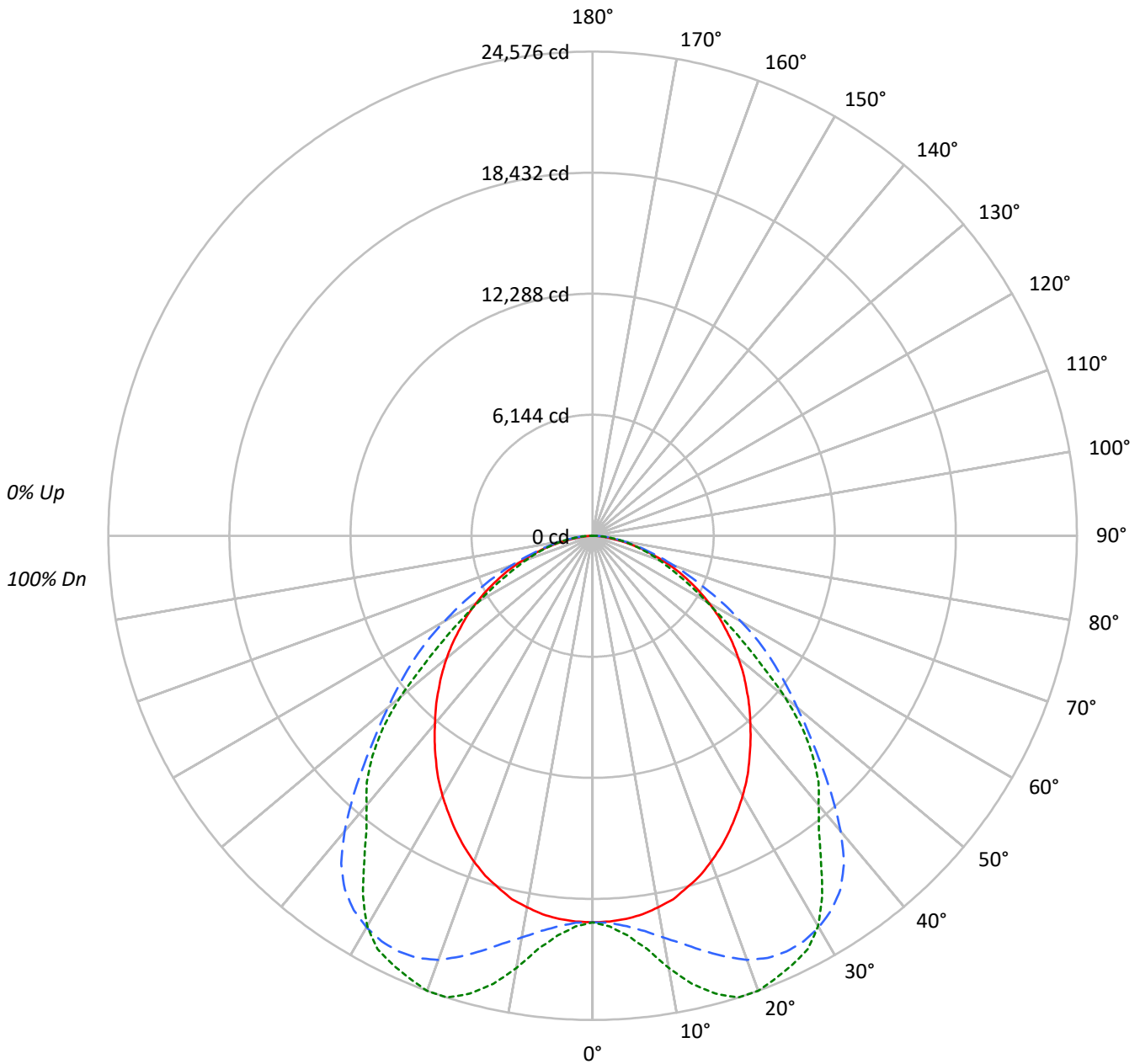
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61727.0 lumens
Efficiency: N/A
Efficacy: 164.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.5 / 1.51
Luminous Opening: Rectangular (W 1' x L: 3.38' x H: 0')
CIE Type: Direct

Input Watts (W): 376
Input Voltage (V): NR
Input Current (Ain): 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62			
4	84	73	64	58	82	71	63	57	69	62	57	66	61	56	64	59	55	53			
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46			
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40			
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29			
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	62475	62475	62475
5°	62407	63584	65092
10°	61914	66940	72014
15°	60946	71924	79324
20°	59627	77644	83286
25°	57906	81833	84378
30°	56021	84393	84149
35°	53919	85241	78520
40°	51746	81391	74164
45°	49789	73776	71155
50°	47849	67083	63080
55°	45660	61979	51331
60°	43402	55256	42275
65°	40412	47481	36656
70°	36766	40539	33153
75°	31574	34021	30395
80°	24679	29182	28191
85°	16687	24763	23239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1926.1	3.1
10°-20°	6107.5	9.9
20°-30°	9995.3	16.2
30°-40°	12193.6	19.8
40°-50°	12076.5	19.6
50°-60°	9657.2	15.6
60°-70°	6024.5	9.8
70°-80°	2951.7	4.8
80°-90°	774.2	1.3
90°-100°	20.4	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	18029.0	29.2
0°-40°	30222.6	49.0
0°-60°	51956.2	84.2
0°-90°	61706.6	100.0
90°-120°	20.4	0.0
90°-150°	20.4	0.0
90°-180°	20.0	0.0
0°-180°	61727.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19618	19618	19618	19618	19618	
5°	19522	19608	19890	20237	20362	###
15°	18486	19561	21816	23552	24060	5211
25°	16480	19269	23289	23964	24013	7583
35°	13869	18532	21926	20755	20197	8675
45°	11055	17174	16381	15831	15799	8539
55°	8224	13187	11163	10085	9245	7368
65°	5363	7399	6301	5226	4864	5318
75°	2566	3143	2765	2532	2470	2724
85°	457	648	678	643	636	566
90°	2	66	120	152	157	26
95°	2	10	10	7	5	1
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19617.8	19617.8	19617.8	19617.8	19617.8
2.5°	19598.1	19590.7	19662.0	19792.1	19851.0
5°	19522.0	19607.9	19890.3	20236.6	20361.8
7.5°	19384.5	19615.3	20239.0	20875.0	21145.1
10°	19146.3	19620.2	20700.7	21822.9	22269.8
12.5°	18900.7	19603.0	21213.9	22802.7	23291.3
15°	18485.7	19561.3	21815.5	23551.6	24059.9
17.5°	18100.2	19512.2	22395.0	24187.6	24573.2
20°	17594.3	19441.0	22910.7	24381.6	24575.6
22.5°	17063.9	19384.5	23195.6	24251.5	24310.4
25°	16479.5	19269.1	23288.9	23964.2	24013.3
27.5°	15855.8	19165.9	23200.5	23608.1	23649.9
30°	15234.5	18979.3	22950.0	23053.1	22883.7
32.5°	14583.8	18792.7	22544.8	22080.7	21685.4
35°	13869.2	18532.4	21926.0	20754.7	20197.3
37.5°	13164.5	18281.9	20961.0	19271.5	18851.6
40°	12447.4	17972.5	19578.5	17886.6	17839.9
42.5°	11769.7	17638.5	18014.3	16808.6	16965.7
45°	11055.1	17174.4	16381.3	15831.2	15799.3
47.5°	10377.4	16533.5	14895.6	14750.8	14424.2
50°	9657.9	15649.5	13540.2	13402.6	12732.3
52.5°	8953.1	14522.4	12329.6	11813.9	10836.5
55°	8223.8	13186.6	11163.1	10085.1	9245.3
57.5°	7546.0	11718.1	9977.1	8579.9	7826.0
60°	6814.3	10230.0	8675.6	7258.7	6637.5
62.5°	6097.2	8764.0	7496.9	6134.1	5721.5
65°	5363.0	7398.7	6301.1	5225.5	4864.5
67.5°	4660.7	6217.6	5267.3	4405.3	4164.7
70°	3948.6	5043.8	4353.8	3700.6	3560.6
72.5°	3214.4	4029.6	3521.3	3123.5	3017.9
75°	2566.1	3143.2	2765.0	2531.7	2470.3
77.5°	1910.5	2337.7	2160.9	2023.4	2006.2
80°	1345.7	1687.0	1591.2	1564.2	1537.2
82.5°	859.5	1102.6	1132.0	1114.8	1095.2
85°	456.7	648.3	677.7	643.4	636.0
87.5°	184.2	282.4	304.5	336.4	346.2
90°	2.5	66.3	120.3	152.2	157.2
92.5°	2.5	14.7	17.2	17.2	14.7
95°	2.5	9.8	9.8	7.4	4.9
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)