

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: P859926

Luminaire Tested: **SPHB-15SE-W-L735-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: P859926
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-15SE-W-L735-CD
Description: 15000 Lumen Standard Efficacy Select Pro High Bay with Wide Lens
and, 3500K 70CRI LEDs
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

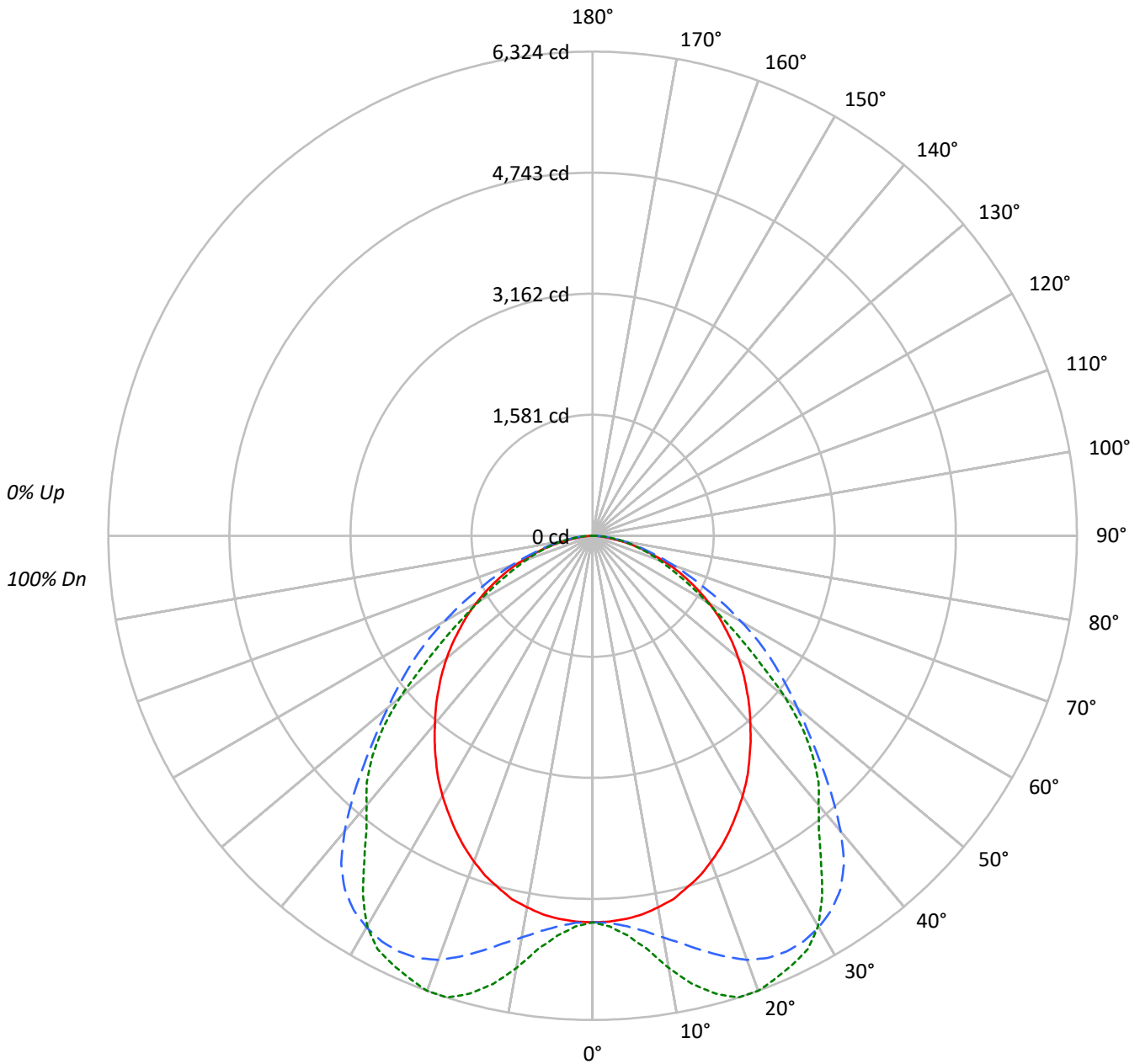
Lumens per Lamp: N/A
Luminaire Lumens: 15884.0 lumens
Efficiency: N/A
Efficacy: 165.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.5 / 1.51
Luminous Opening: Rectangular (W 1' x L: 1.38' x H: 0')
CIE Type: Direct

Input Watts (W): 95.9
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				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				100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72				72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62				62
4	84	73	64	58	82	71	63	57	69	62	57	66	61	56	64	59	55	53				53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36				36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32				32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29				29
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39376	39376	39376
5°	39333	40075	41025
10°	39022	42190	45388
15°	38412	45331	49995
20°	37581	48936	52492
25°	36496	51576	53181
30°	35308	53189	53036
35°	33983	53724	49489
40°	32614	51298	46743
45°	31380	46498	44847
50°	30157	42279	39758
55°	28778	39064	32353
60°	27354	34827	26645
65°	25470	29925	23104
70°	23173	25549	20894
75°	19899	21442	19158
80°	15555	18394	17770
85°	10516	15608	14650



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.6	3.1
10°-20°	1571.6	9.9
20°-30°	2572.1	16.2
30°-40°	3137.7	19.8
40°-50°	3107.6	19.6
50°-60°	2485.1	15.6
60°-70°	1550.3	9.8
70°-80°	759.6	4.8
80°-90°	199.2	1.3
90°-100°	5.2	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°	4639.3	29.2
0°-40°	7777.1	49.0
0°-60°	13369.7	84.2
0°-90°	15878.8	100.0
90°-120°	5.2	0.0
90°-150°	5.2	0.0
90°-180°	5.0	0.0
0°-180°	15884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5048	5048	5048	5048	5048	
5°	5024	5046	5118	5207	5240	477
15°	4757	5034	5614	6060	6191	1341
25°	4241	4958	5993	6167	6179	1951
35°	3569	4769	5642	5341	5197	2232
45°	2845	4419	4215	4074	4066	2197
55°	2116	3393	2873	2595	2379	1896
65°	1380	1904	1621	1345	1252	1368
75°	660	809	712	652	636	701
85°	118	167	174	166	164	146
90°	1	17	31	39	40	7
95°	1	2	2	2	1	0
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°	5048.2	5048.2	5048.2	5048.2	5048.2
2.5°	5043.1	5041.2	5059.5	5093.0	5108.2
5°	5023.5	5045.6	5118.3	5207.4	5239.6
7.5°	4988.1	5047.5	5208.0	5371.7	5441.2
10°	4926.8	5048.8	5326.8	5615.6	5730.6
12.5°	4863.7	5044.4	5458.9	5867.7	5993.5
15°	4756.9	5033.6	5613.7	6060.5	6191.3
17.5°	4657.7	5021.0	5762.8	6224.1	6323.3
20°	4527.5	5002.7	5895.5	6274.0	6324.0
22.5°	4391.0	4988.1	5968.8	6240.5	6255.7
25°	4240.6	4958.4	5992.8	6166.6	6179.3
27.5°	4080.1	4931.9	5970.1	6075.0	6085.7
30°	3920.2	4883.9	5905.6	5932.2	5888.6
32.5°	3752.8	4835.9	5801.4	5682.0	5580.2
35°	3568.9	4768.9	5642.1	5340.7	5197.3
37.5°	3387.6	4704.4	5393.8	4959.1	4851.0
40°	3203.1	4624.8	5038.1	4602.7	4590.7
42.5°	3028.7	4538.9	4635.5	4325.3	4365.7
45°	2844.8	4419.4	4215.3	4073.8	4065.6
47.5°	2670.4	4254.5	3833.0	3795.8	3711.7
50°	2485.2	4027.0	3484.2	3448.9	3276.4
52.5°	2303.9	3737.0	3172.7	3040.0	2788.5
55°	2116.2	3393.3	2872.6	2595.2	2379.1
57.5°	1941.8	3015.4	2567.4	2207.8	2013.8
60°	1753.5	2632.5	2232.5	1867.9	1708.0
62.5°	1569.0	2255.2	1929.2	1578.5	1472.3
65°	1380.0	1903.9	1621.4	1344.7	1251.8
67.5°	1199.3	1599.9	1355.4	1133.6	1071.7
70°	1016.1	1297.9	1120.3	952.3	916.2
72.5°	827.1	1036.9	906.1	803.8	776.6
75°	660.3	808.8	711.5	651.5	635.7
77.5°	491.6	601.6	556.1	520.7	516.3
80°	346.3	434.1	409.5	402.5	395.6
82.5°	221.2	283.7	291.3	286.9	281.8
85°	117.5	166.8	174.4	165.6	163.7
87.5°	47.4	72.7	78.4	86.6	89.1
90°	0.6	17.1	31.0	39.2	40.4
92.5°	0.6	3.8	4.4	4.4	3.8
95°	0.6	2.5	2.5	1.9	1.3
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)