

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: P859932

Luminaire Tested: **SPHB-15SE-W-L935-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: P859932
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-L935-CD
Description: 15000 Lumen Standard Efficacy Select Pro High Bay with Wide Lens and, 3500K 90CRI LEDs
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

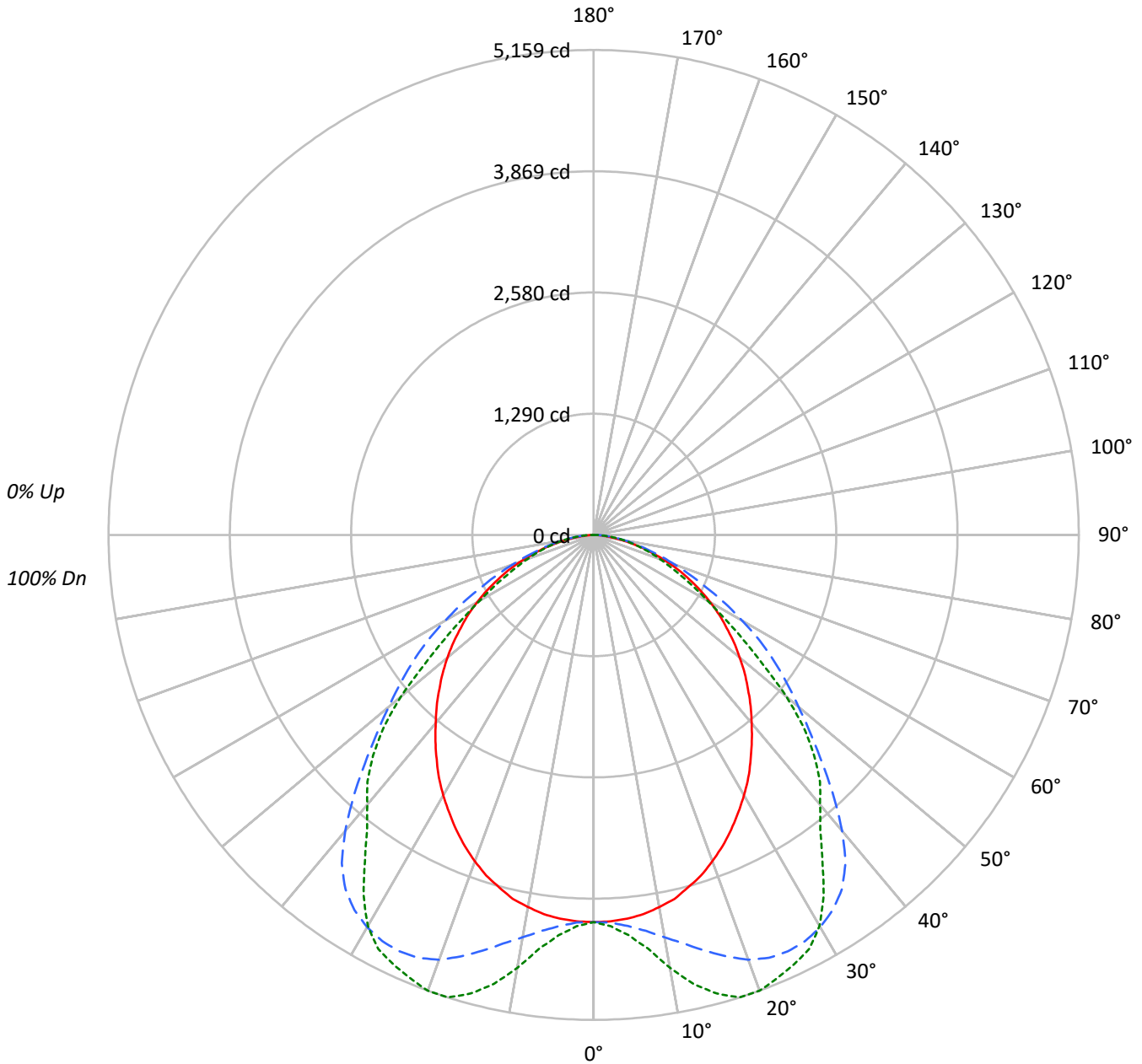
Lumens per Lamp: N/A
Luminaire Lumens: 12958.0 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.5 / 1.51
Luminous Opening: Rectangular (W 1' x L: 1.38' x H: 0')
CIE Type: Direct

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									
RC	80									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°	32122	32122	32122
5°	32087	32693	33467
10°	31834	34418	37027
15°	31336	36981	40786
20°	30658	39921	42822
25°	29773	42075	43384
30°	28804	43392	43266
35°	27723	43828	40372
40°	26606	41848	38132
45°	25599	37933	36586
50°	24602	34491	32433
55°	23477	31867	26393
60°	22316	28410	21737
65°	20778	24412	18847
70°	18903	20844	17047
75°	16235	17491	15629
80°	12689	15003	14495
85°	8582	12735	11947



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.3	3.1
10°-20°	1282.1	9.9
20°-30°	2098.3	16.2
30°-40°	2559.7	19.8
40°-50°	2535.1	19.6
50°-60°	2027.3	15.6
60°-70°	1264.7	9.8
70°-80°	619.6	4.8
80°-90°	162.5	1.3
90°-100°	4.3	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°	3784.7	29.2
0°-40°	6344.5	49.0
0°-60°	10906.9	84.2
0°-90°	12953.7	100.0
90°-120°	4.3	0.0
90°-150°	4.3	0.0
90°-180°	4.0	0.0
0°-180°	12958.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4118	4118	4118	4118	4118	
5°	4098	4116	4176	4248	4274	389
15°	3881	4106	4580	4944	5051	1094
25°	3459	4045	4889	5031	5041	1592
35°	2912	3890	4603	4357	4240	1821
45°	2321	3605	3439	3323	3317	1792
55°	1726	2768	2343	2117	1941	1547
65°	1126	1553	1323	1097	1021	1116
75°	539	660	580	532	519	572
85°	96	136	142	135	134	119
90°	0	14	25	32	33	6
95°	0	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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CATALOG NUMBER: SPHB-15SE-W-L935-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4118.2	4118.2	4118.2	4118.2	4118.2
2.5°	4114.1	4112.6	4127.5	4154.8	4167.2
5°	4098.1	4116.2	4175.5	4248.1	4274.4
7.5°	4069.3	4117.7	4248.7	4382.2	4438.9
10°	4019.3	4118.8	4345.6	4581.2	4675.0
12.5°	3967.7	4115.2	4453.3	4786.8	4889.4
15°	3880.6	4106.4	4579.6	4944.1	5050.8
17.5°	3799.7	4096.1	4701.3	5077.6	5158.5
20°	3693.5	4081.1	4809.5	5118.3	5159.0
22.5°	3582.1	4069.3	4869.3	5091.0	5103.3
25°	3459.4	4045.0	4888.9	5030.7	5041.0
27.5°	3328.5	4023.4	4870.3	4955.9	4964.7
30°	3198.1	3984.2	4817.8	4839.4	4803.8
32.5°	3061.5	3945.0	4732.7	4635.3	4552.3
35°	2911.5	3890.4	4602.8	4356.9	4239.9
37.5°	2763.5	3837.8	4400.2	4045.6	3957.4
40°	2613.0	3772.9	4110.0	3754.8	3745.0
42.5°	2470.7	3702.8	3781.6	3528.5	3561.5
45°	2320.7	3605.3	3438.8	3323.4	3316.7
47.5°	2178.5	3470.8	3127.0	3096.5	3028.0
50°	2027.4	3285.2	2842.4	2813.5	2672.8
52.5°	1879.5	3048.6	2588.3	2480.0	2274.9
55°	1726.4	2768.2	2343.4	2117.1	1940.8
57.5°	1584.1	2459.9	2094.4	1801.1	1642.9
60°	1430.5	2147.5	1821.2	1523.8	1393.4
62.5°	1280.0	1839.8	1573.8	1287.7	1201.1
65°	1125.8	1553.2	1322.7	1097.0	1021.2
67.5°	978.4	1305.2	1105.7	924.8	874.3
70°	828.9	1058.8	914.0	776.8	747.5
72.5°	674.8	845.9	739.2	655.7	633.5
75°	538.7	659.8	580.4	531.5	518.6
77.5°	401.1	490.7	453.6	424.8	421.2
80°	282.5	354.1	334.0	328.4	322.7
82.5°	180.4	231.5	237.6	234.0	229.9
85°	95.9	136.1	142.3	135.1	133.5
87.5°	38.7	59.3	63.9	70.6	72.7
90°	0.5	13.9	25.3	32.0	33.0
92.5°	0.5	3.1	3.6	3.6	3.1
95°	0.5	2.1	2.1	1.5	1.0
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)