

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: P859934

Luminaire Tested: **SPHB-15SE-W-L950-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: P859934  
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-L950-CD  
Description: 15000 Lumen Standard Efficacy Select Pro High Bay with Wide Lens and, 5000K 90CRI LEDs  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

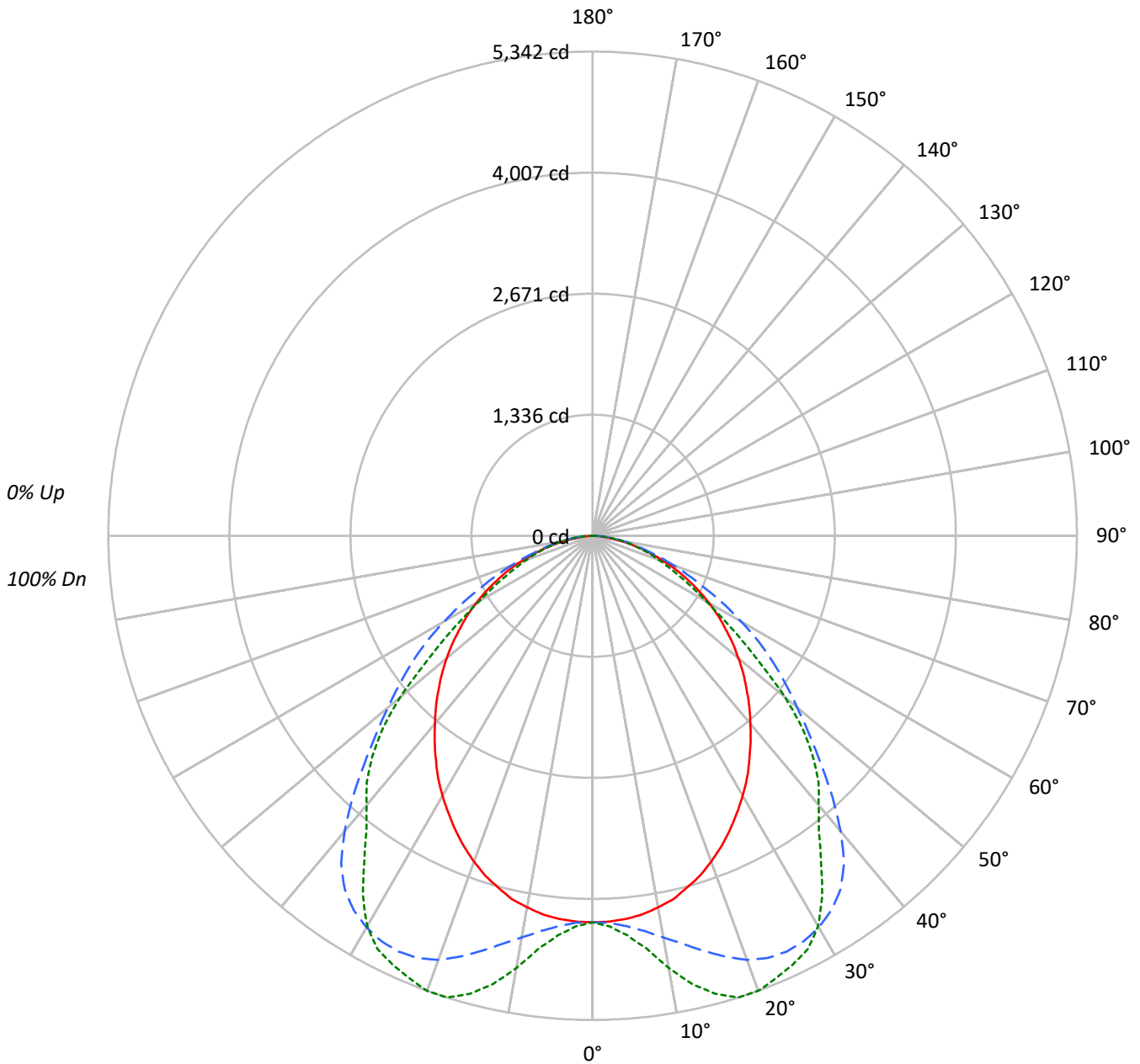
Lumens per Lamp: N/A  
Luminaire Lumens: 13418.0 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.5 / 1.51  
Luminous Opening: Rectangular (W 1' x L: 1.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 95.9  
Input Voltage (V): NR  
Input Current (A<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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CATALOG NUMBER: SPHB-15SE-W-L950-CD

### 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°	33262	33262	33262
5°	33226	33853	34656
10°	32964	35640	38341
15°	32449	38294	42234
20°	31746	41339	44343
25°	30830	43569	44924
30°	29826	44932	44802
35°	28707	45384	41805
40°	27551	43334	39486
45°	26508	39279	37884
50°	25475	35716	33585
55°	24311	32999	27329
60°	23108	29420	22508
65°	21516	25279	19516
70°	19574	21583	17651
75°	16810	18112	16183
80°	13139	15537	15012
85°	8887	13183	12377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.7	3.1
10°-20°	1327.6	9.9
20°-30°	2172.7	16.2
30°-40°	2650.6	19.8
40°-50°	2625.1	19.6
50°-60°	2099.2	15.6
60°-70°	1309.6	9.8
70°-80°	641.6	4.8
80°-90°	168.3	1.3
90°-100°	4.4	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°	3919.1	29.2
0°-40°	6569.7	49.0
0°-60°	11294.1	84.2
0°-90°	13413.6	100.0
90°-120°	4.4	0.0
90°-150°	4.4	0.0
90°-180°	4.0	0.0
0°-180°	13418.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4264	4264	4264	4264	4264	
5°	4244	4262	4324	4399	4426	403
15°	4018	4252	4742	5120	5230	1133
25°	3582	4189	5062	5209	5220	1648
35°	3015	4028	4766	4512	4390	1886
45°	2403	3733	3561	3441	3434	1856
55°	1788	2866	2427	2192	2010	1602
65°	1166	1608	1370	1136	1057	1156
75°	558	683	601	550	537	592
85°	99	141	147	140	138	123
90°	0	14	26	33	34	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-L950-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4264.4	4264.4	4264.4	4264.4	4264.4
2.5°	4260.2	4258.6	4274.0	4302.3	4315.2
5°	4243.6	4262.3	4323.7	4399.0	4426.2
7.5°	4213.7	4263.9	4399.5	4537.7	4596.5
10°	4162.0	4265.0	4499.8	4743.8	4840.9
12.5°	4108.6	4261.2	4611.4	4956.8	5063.0
15°	4018.4	4252.2	4742.2	5119.6	5230.1
17.5°	3934.6	4241.5	4868.2	5257.8	5341.6
20°	3824.6	4226.0	4980.3	5300.0	5342.2
22.5°	3709.3	4213.7	5042.2	5271.7	5284.5
25°	3582.3	4188.6	5062.5	5209.2	5219.9
27.5°	3446.7	4166.2	5043.2	5131.8	5140.9
30°	3311.6	4125.7	4988.8	5011.2	4974.4
32.5°	3170.2	4085.1	4900.7	4799.8	4713.9
35°	3014.8	4028.5	4766.2	4511.6	4390.4
37.5°	2861.6	3974.1	4556.4	4189.2	4097.9
40°	2705.8	3906.8	4255.9	3888.1	3878.0
42.5°	2558.5	3834.2	3915.9	3653.8	3687.9
45°	2403.1	3733.3	3560.9	3441.3	3434.4
47.5°	2255.8	3594.0	3238.0	3206.5	3135.5
50°	2099.4	3401.8	2943.3	2913.4	2767.7
52.5°	1946.2	3156.8	2680.2	2568.1	2355.6
55°	1787.7	2866.4	2426.6	2192.3	2009.7
57.5°	1640.3	2547.2	2168.8	1865.1	1701.2
60°	1481.3	2223.8	1885.9	1577.9	1442.8
62.5°	1325.4	1905.1	1629.7	1333.4	1243.7
65°	1165.8	1608.3	1369.7	1135.9	1057.4
67.5°	1013.1	1351.6	1145.0	957.6	905.3
70°	858.3	1096.4	946.4	804.4	774.0
72.5°	698.7	875.9	765.5	679.0	656.0
75°	557.8	683.2	601.0	550.3	537.0
77.5°	415.3	508.2	469.7	439.8	436.1
80°	292.5	366.7	345.9	340.0	334.2
82.5°	186.8	239.7	246.1	242.3	238.1
85°	99.3	140.9	147.3	139.9	138.3
87.5°	40.0	61.4	66.2	73.1	75.3
90°	0.5	14.4	26.2	33.1	34.2
92.5°	0.5	3.2	3.7	3.7	3.2
95°	0.5	2.1	2.1	1.6	1.1
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)