

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: P860096

Luminaire Tested: **SPHB-30SE-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: P860096  
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-30SE-W-L950-CD  
Description: 30000 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**

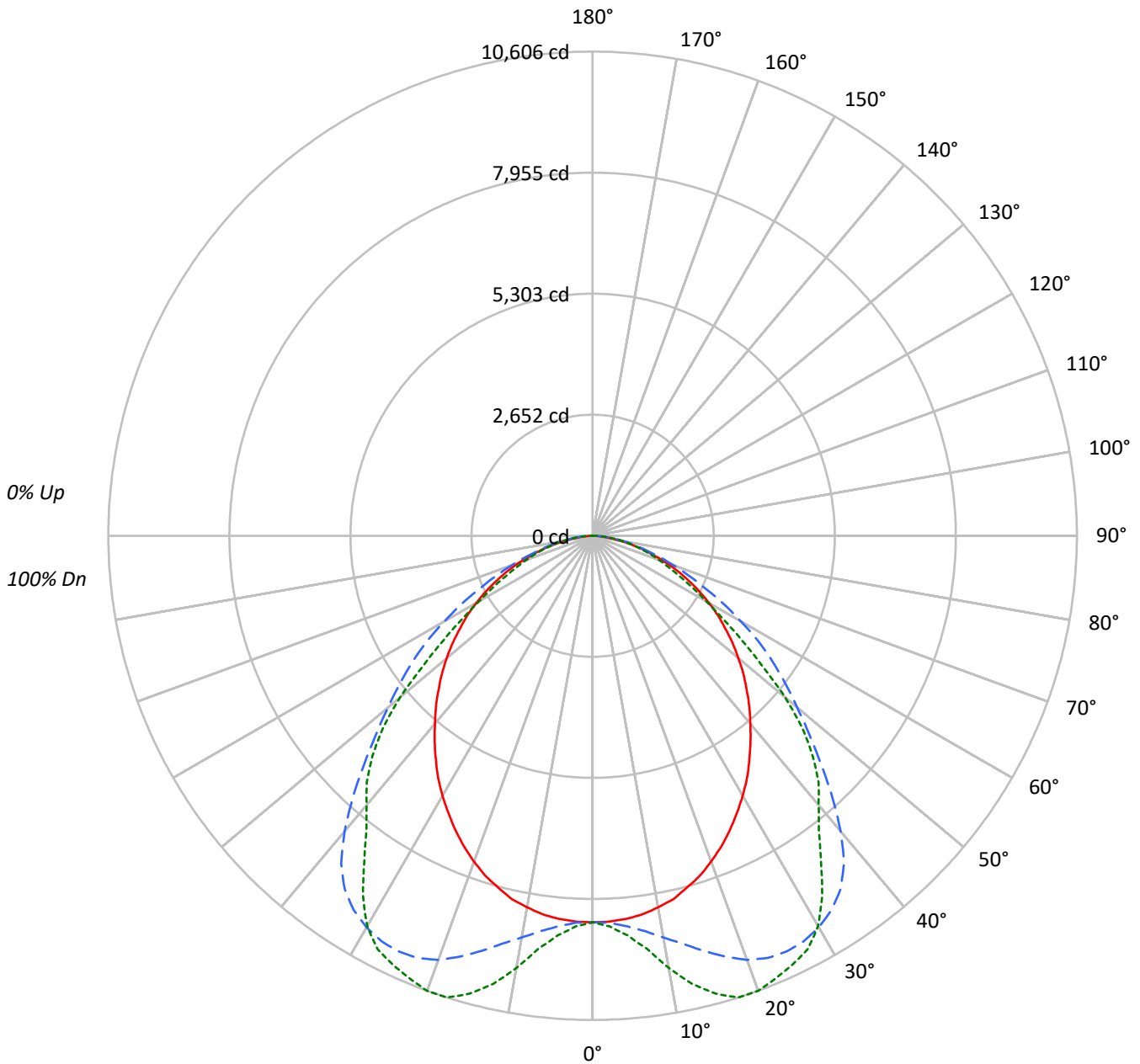
Lumens per Lamp: N/A  
Luminaire Lumens: 26639.0 lumens  
Efficiency: N/A  
Efficacy: 136.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.5 / 1.51  
Luminous Opening: Rectangular (W 1' x L: 2.04' x H: 0')  
CIE Type: Direct

Input Watts (W): 195  
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

TEST NUMBER: P860096

CATALOG NUMBER: SPHB-30SE-W-L950-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P860096

CATALOG NUMBER: SPHB-30SE-W-L950-CD

**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°	44672	44672	44672
5°	44623	45465	46543
10°	44271	47865	51493
15°	43579	51428	56719
20°	42635	55518	59553
25°	41405	58514	60333
30°	40057	60344	60170
35°	38554	60950	56145
40°	37000	58198	53030
45°	35601	52753	50879
50°	34214	47967	45105
55°	32649	44318	36704
60°	31034	39511	30229
65°	28897	33951	26210
70°	26290	28986	23706
75°	22576	24327	21734
80°	17645	20866	20158
85°	11932	17708	16618



TEST NUMBER: P860096

CATALOG NUMBER: SPHB-30SE-W-L950-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	831.2	3.1
10°-20°	2635.8	9.9
20°-30°	4313.6	16.2
30°-40°	5262.3	19.8
40°-50°	5211.7	19.6
50°-60°	4167.7	15.6
60°-70°	2599.9	9.8
70°-80°	1273.8	4.8
80°-90°	334.1	1.3
90°-100°	8.8	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°	7780.6	29.2
0°-40°	13042.9	49.0
0°-60°	22422.3	84.2
0°-90°	26630.2	100.0
90°-120°	8.8	0.0
90°-150°	8.8	0.0
90°-180°	9.0	0.0
0°-180°	26639.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8466	8466	8466	8466	8466	
5°	8425	8462	8584	8733	8787	799
15°	7978	8442	9415	10164	10383	2249
25°	7112	8316	10051	10342	10363	3273
35°	5985	7998	9462	8957	8716	3744
45°	4771	7412	7070	6832	6818	3685
55°	3549	5691	4818	4352	3990	3180
65°	2314	3193	2719	2255	2099	2295
75°	1107	1356	1193	1093	1066	1176
85°	197	280	292	278	274	244
90°	1	29	52	66	68	11
95°	1	4	4	3	2	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



TEST NUMBER: P860096

CATALOG NUMBER: SPHB-30SE-W-L950-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8466.3	8466.3	8466.3	8466.3	8466.3
2.5°	8457.8	8454.6	8485.3	8541.5	8566.9
5°	8424.9	8462.0	8583.9	8733.3	8787.4
7.5°	8365.6	8465.2	8734.4	9008.9	9125.4
10°	8262.8	8467.3	8933.6	9417.9	9610.8
12.5°	8156.8	8459.9	9155.1	9840.8	10051.6
15°	7977.7	8441.9	9414.7	10164.0	10383.3
17.5°	7811.4	8420.7	9664.8	10438.4	10604.8
20°	7593.0	8390.0	9887.4	10522.2	10605.9
22.5°	7364.1	8365.6	10010.3	10466.0	10491.4
25°	7111.9	8315.8	10050.6	10342.0	10363.2
27.5°	6842.7	8271.3	10012.4	10188.4	10206.4
30°	6574.6	8190.7	9904.3	9948.8	9875.7
32.5°	6293.8	8110.2	9729.5	9529.2	9358.6
35°	5985.4	7997.9	9462.4	8956.9	8716.4
37.5°	5681.3	7889.8	9045.9	8316.8	8135.6
40°	5371.8	7756.2	8449.3	7719.2	7699.0
42.5°	5079.3	7612.1	7774.3	7253.9	7321.8
45°	4771.0	7411.8	7069.5	6832.2	6818.4
47.5°	4478.5	7135.2	6428.4	6365.9	6224.9
50°	4168.0	6753.7	5843.4	5784.1	5494.8
52.5°	3863.8	6267.3	5321.0	5098.4	4676.6
55°	3549.1	5690.8	4817.6	4352.4	3989.9
57.5°	3256.6	5057.1	4305.7	3702.7	3377.4
60°	2940.8	4414.9	3744.1	3132.6	2864.5
62.5°	2631.3	3782.2	3235.4	2647.2	2469.2
65°	2314.5	3193.0	2719.3	2255.1	2099.3
67.5°	2011.4	2683.3	2273.1	1901.2	1797.3
70°	1704.1	2176.7	1878.9	1597.0	1536.6
72.5°	1387.2	1739.0	1519.7	1348.0	1302.4
75°	1107.4	1356.5	1193.3	1092.6	1066.1
77.5°	824.5	1008.9	932.6	873.2	865.8
80°	580.7	728.0	686.7	675.1	663.4
82.5°	370.9	475.8	488.5	481.1	472.6
85°	197.1	279.8	292.5	277.7	274.5
87.5°	79.5	121.9	131.4	145.2	149.4
90°	1.1	28.6	51.9	65.7	67.8
92.5°	1.1	6.4	7.4	7.4	6.4
95°	1.1	4.2	4.2	3.2	2.1
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



TEST NUMBER: P860096

CATALOG NUMBER: SPHB-30SE-W-L950-CD

**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)