

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: P860078

Luminaire Tested: **SPHB-30SE-M-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: P860078  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-343-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: SPHB-30SE-M-L950-CD  
Description: 30000 Lumen Standard Efficacy Select Pro High Bay with Medium Lens  
and, 5000K 90CRI LEDs  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

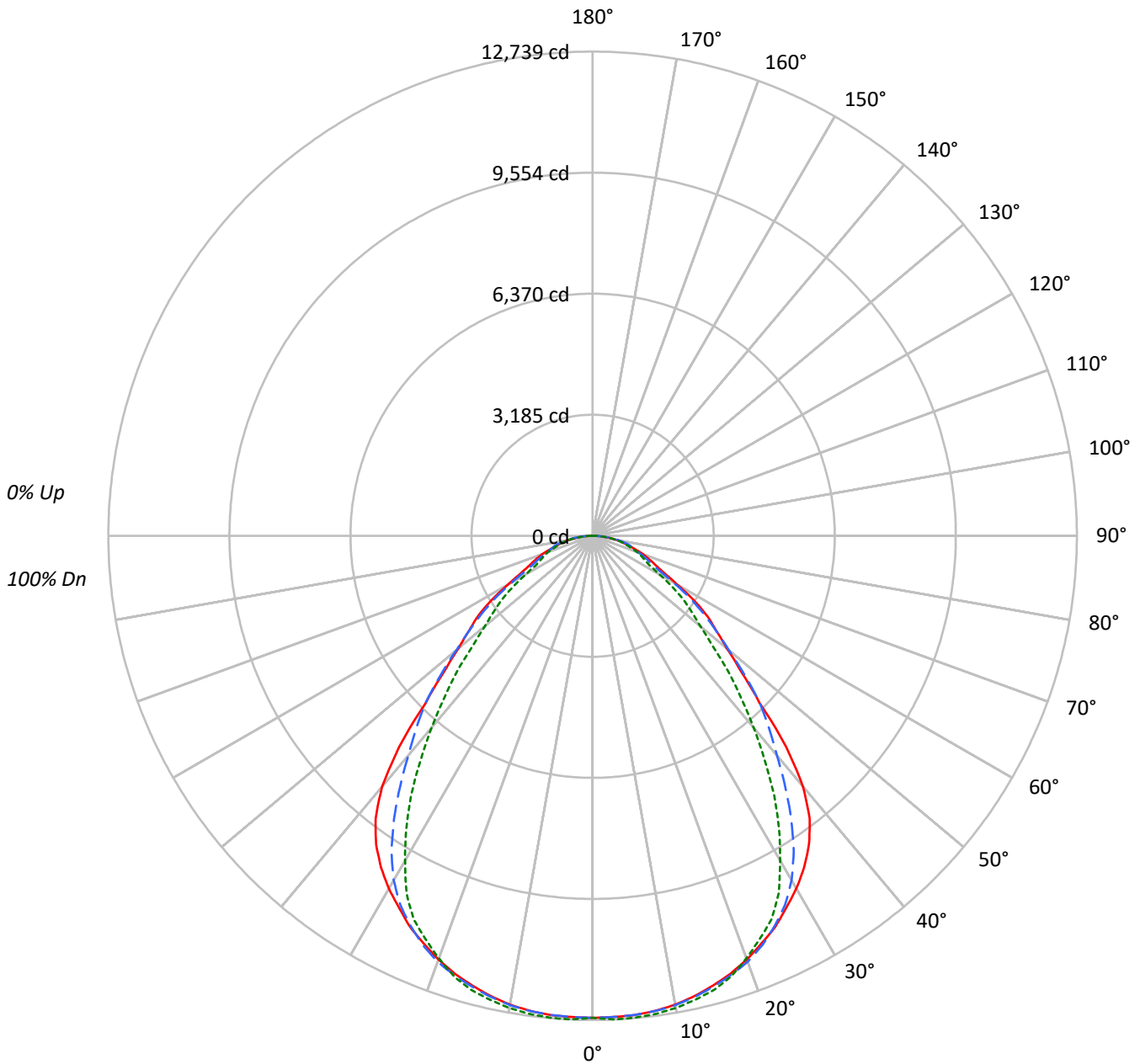
Lumens per Lamp: N/A  
Luminaire Lumens: 26323.0 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.16 / 1.22  
Luminous Opening: Rectangular (W 1' x L: 2.04' x H: 0')  
CIE Type: Direct

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

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

### 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	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87																			
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75																			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66																			
4	87	76	69	63	85	75	68	62	73	66	61	70	65	61	68	64	60	58																			
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51																			
6	75	63	55	49	73	62	54	49	60	54	48	59	53	48	57	52	48	46																			
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41																			
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37																			
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34																			
10	58	45	38	33	57	45	38	33	44	37	33	43	37	33	42	37	33	31																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	66915	66915	66915
5°	67047	67029	67410
10°	67105	67177	67589
15°	66909	67083	67549
20°	66617	66955	66420
25°	66130	65945	64825
30°	65293	63754	60116
35°	63922	58653	53579
40°	59321	51913	45381
45°	46280	46405	37556
50°	37799	38334	30330
55°	33867	32589	26650
60°	27112	25665	21322
65°	22720	20799	18857
70°	21572	19818	19198
75°	19573	21039	18515
80°	19669	21498	19517
85°	17115	20051	16303



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1205.8	4.6
10°-20°	3467.9	13.2
20°-30°	5177.1	19.7
30°-40°	5649.1	21.5
40°-50°	4621.2	17.6
50°-60°	3038.4	11.5
60°-70°	1743.2	6.6
70°-80°	1056.3	4.0
80°-90°	354.7	1.3
90°-100°	9.2	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°	9850.8	37.4
0°-40°	15499.9	58.9
0°-60°	23159.5	88.0
0°-90°	26313.8	100.0
90°-120°	9.2	0.0
90°-150°	9.2	0.0
90°-180°	9.0	0.0
0°-180°	26323.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12682	12682	12682	12682	12682	
5°	12658	12638	12655	12707	12727	###
15°	12249	12247	12280	12359	12366	3457
25°	11359	11386	11327	11190	11135	5226
35°	9924	9700	9106	8485	8318	6151
45°	6202	6666	6219	5490	5033	4923
55°	3682	3581	3543	3044	2897	3242
65°	1820	1793	1666	1621	1510	1860
75°	960	1039	1032	990	908	1039
85°	283	321	331	289	269	307
90°	2	23	47	55	58	13
95°	2	3	5	5	3	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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CATALOG NUMBER: SPHB-30SE-M-L950-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12681.9	12681.9	12681.9	12681.9	12681.9
2.5°	12673.6	12655.2	12671.9	12723.7	12738.8
5°	12658.5	12638.4	12655.2	12707.0	12727.1
7.5°	12606.7	12594.9	12611.7	12663.5	12688.6
10°	12524.7	12511.3	12538.1	12583.2	12615.0
12.5°	12402.6	12397.6	12422.7	12487.9	12501.3
15°	12248.7	12247.0	12280.5	12359.1	12365.8
17.5°	12074.8	12073.1	12114.9	12166.8	12148.4
20°	11864.0	11875.7	11924.2	11875.7	11828.9
22.5°	11611.4	11648.2	11659.9	11507.7	11484.3
25°	11358.9	11385.6	11327.1	11189.9	11134.7
27.5°	11032.7	11064.5	10955.8	10760.1	10602.8
30°	10716.6	10686.5	10464.0	10086.0	9866.9
32.5°	10353.6	10246.6	9846.8	9324.9	9125.9
35°	9923.7	9699.6	9105.8	8485.3	8318.0
37.5°	9380.1	8970.3	8321.4	7674.1	7421.5
40°	8612.4	8139.0	7536.9	6867.8	6588.5
42.5°	7536.9	7361.3	6862.8	6110.1	5777.3
45°	6202.1	6665.5	6218.9	5489.6	5033.0
47.5°	5308.9	5952.9	5416.0	4889.1	4260.2
50°	4604.8	5048.0	4670.0	4195.0	3694.9
52.5°	4096.3	4230.1	4077.9	3556.0	3271.7
55°	3681.5	3581.1	3542.6	3044.2	2897.0
57.5°	3166.3	3111.1	3012.4	2654.5	2460.4
60°	2569.2	2686.3	2432.0	2330.0	2020.5
62.5°	2110.9	2226.3	1953.6	1946.9	1689.4
65°	1819.8	1793.1	1665.9	1620.8	1510.4
67.5°	1610.7	1527.1	1483.6	1425.1	1386.6
70°	1398.3	1363.2	1284.6	1296.3	1244.4
72.5°	1165.8	1211.0	1132.4	1154.1	1060.5
75°	960.1	1038.7	1032.0	990.2	908.2
77.5°	791.2	874.8	889.8	851.4	784.5
80°	647.3	704.2	707.5	684.1	642.3
82.5°	475.0	508.5	533.6	493.4	466.7
85°	282.7	321.1	331.2	289.4	269.3
87.5°	92.0	128.8	143.8	148.9	150.5
90°	1.7	23.4	46.8	55.2	58.5
92.5°	1.7	6.7	10.0	15.1	16.7
95°	1.7	3.3	5.0	5.0	3.3
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)