

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: P860076

Luminaire Tested: **SPHB-30SE-M-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: P860076  
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-L935-CD  
Description: 30000 Lumen Standard Efficacy Select Pro High Bay with Medium Lens  
and, 3500K 90CRI LEDs  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

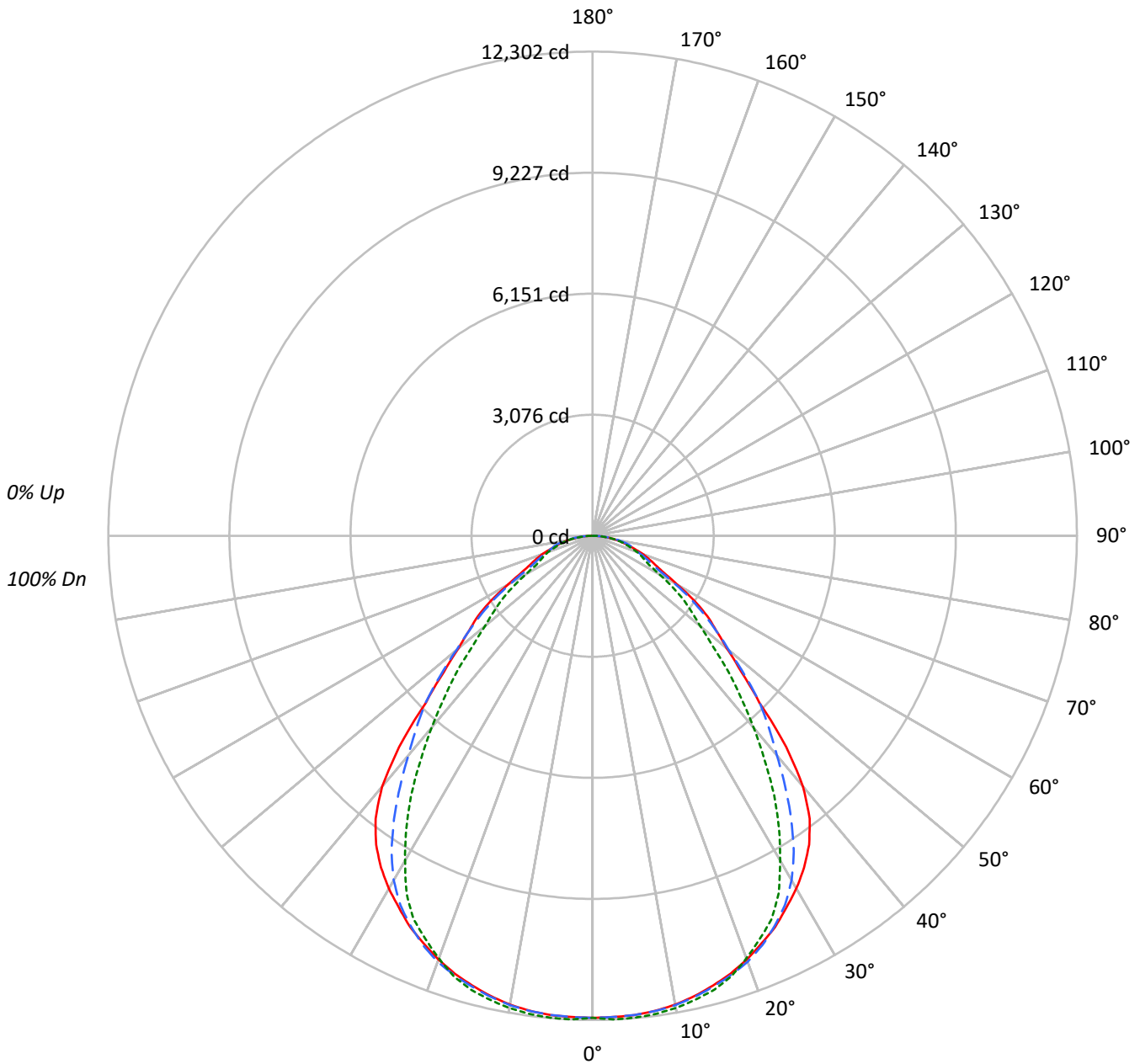
Lumens per Lamp: N/A  
Luminaire Lumens: 25421.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.16 / 1.22  
Luminous Opening: Rectangular (W 1' x L: 2.04' x H: 0')  
CIE Type: Direct

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-L935-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	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°	64623	64623	64623
5°	64749	64732	65100
10°	64806	64875	65273
15°	64617	64784	65234
20°	64335	64661	64144
25°	63864	63685	62604
30°	63056	61569	58056
35°	61732	56644	51743
40°	57289	50134	43826
45°	44694	44815	36269
50°	36504	37021	29290
55°	32706	31472	25737
60°	26183	24785	20592
65°	21943	20087	18211
70°	20833	19139	18540
75°	18902	20319	17881
80°	18994	20763	18848
85°	16527	19361	15747



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1164.5	4.6
10°-20°	3349.1	13.2
20°-30°	4999.7	19.7
30°-40°	5455.5	21.5
40°-50°	4462.8	17.6
50°-60°	2934.3	11.5
60°-70°	1683.5	6.6
70°-80°	1020.2	4.0
80°-90°	342.6	1.3
90°-100°	8.9	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°	9513.3	37.4
0°-40°	14968.8	58.9
0°-60°	22365.9	88.0
0°-90°	25412.1	100.0
90°-120°	8.9	0.0
90°-150°	8.9	0.0
90°-180°	9.0	0.0
0°-180°	25421.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12247	12247	12247	12247	12247	
5°	12225	12205	12222	12272	12291	###
15°	11829	11827	11860	11936	11942	3339
25°	10970	10996	10939	10806	10753	5047
35°	9584	9367	8794	8194	8033	5940
45°	5990	6437	6006	5302	4860	4754
55°	3555	3458	3421	2940	2798	3131
65°	1758	1732	1609	1565	1459	1797
75°	927	1003	997	956	877	1003
85°	273	310	320	280	260	296
90°	2	23	45	53	56	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



TEST NUMBER: P860076

CATALOG NUMBER: SPHB-30SE-M-L935-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12247.4	12247.4	12247.4	12247.4	12247.4
2.5°	12239.3	12221.5	12237.7	12287.7	12302.3
5°	12224.7	12205.4	12221.5	12271.6	12291.0
7.5°	12174.7	12163.4	12179.5	12229.6	12253.8
10°	12095.5	12082.6	12108.4	12152.1	12182.7
12.5°	11977.6	11972.8	11997.0	12060.0	12072.9
15°	11829.0	11827.4	11859.7	11935.6	11942.1
17.5°	11661.0	11659.4	11699.8	11749.8	11732.1
20°	11457.5	11468.8	11515.6	11468.8	11423.5
22.5°	11213.6	11249.1	11260.4	11113.4	11090.8
25°	10969.6	10995.5	10938.9	10806.5	10753.2
27.5°	10654.7	10685.3	10580.3	10391.4	10239.5
30°	10349.4	10320.3	10105.4	9740.4	9528.8
32.5°	9998.8	9895.5	9509.4	9005.4	8813.2
35°	9583.7	9367.2	8793.8	8194.5	8033.0
37.5°	9058.7	8663.0	8036.2	7411.1	7167.2
40°	8317.3	7860.1	7278.6	6632.5	6362.7
42.5°	7278.6	7109.0	6627.7	5900.8	5579.3
45°	5989.6	6437.1	6005.8	5301.5	4860.5
47.5°	5127.0	5748.9	5230.4	4721.6	4114.2
50°	4447.0	4875.0	4510.0	4051.2	3568.2
52.5°	3955.9	4085.1	3938.2	3434.2	3159.6
55°	3555.3	3458.4	3421.2	2939.9	2797.7
57.5°	3057.8	3004.5	2909.2	2563.5	2376.1
60°	2481.1	2594.2	2348.7	2250.1	1951.3
62.5°	2038.5	2150.0	1886.7	1880.2	1631.5
65°	1757.5	1731.6	1608.9	1565.2	1458.6
67.5°	1555.6	1474.8	1432.8	1376.3	1339.1
70°	1350.4	1316.5	1240.6	1251.9	1201.8
72.5°	1125.9	1169.5	1093.6	1114.6	1024.1
75°	927.2	1003.1	996.7	956.3	877.1
77.5°	764.0	844.8	859.4	822.2	757.6
80°	625.1	680.0	683.3	660.7	620.3
82.5°	458.8	491.1	515.3	476.5	450.7
85°	273.0	310.1	319.8	279.5	260.1
87.5°	88.8	124.4	138.9	143.8	145.4
90°	1.6	22.6	45.2	53.3	56.5
92.5°	1.6	6.5	9.7	14.5	16.2
95°	1.6	3.2	4.8	4.8	3.2
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)