

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: P860085

Luminaire Tested: **SPHB-30SE-N-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: P860085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-343-7)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SPHB-30SE-N-L935-CD
Description: 30000 Lumen Standard Efficacy Select Pro High Bay with Narrow Lens
and, 3500K 90CRI LEDs
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

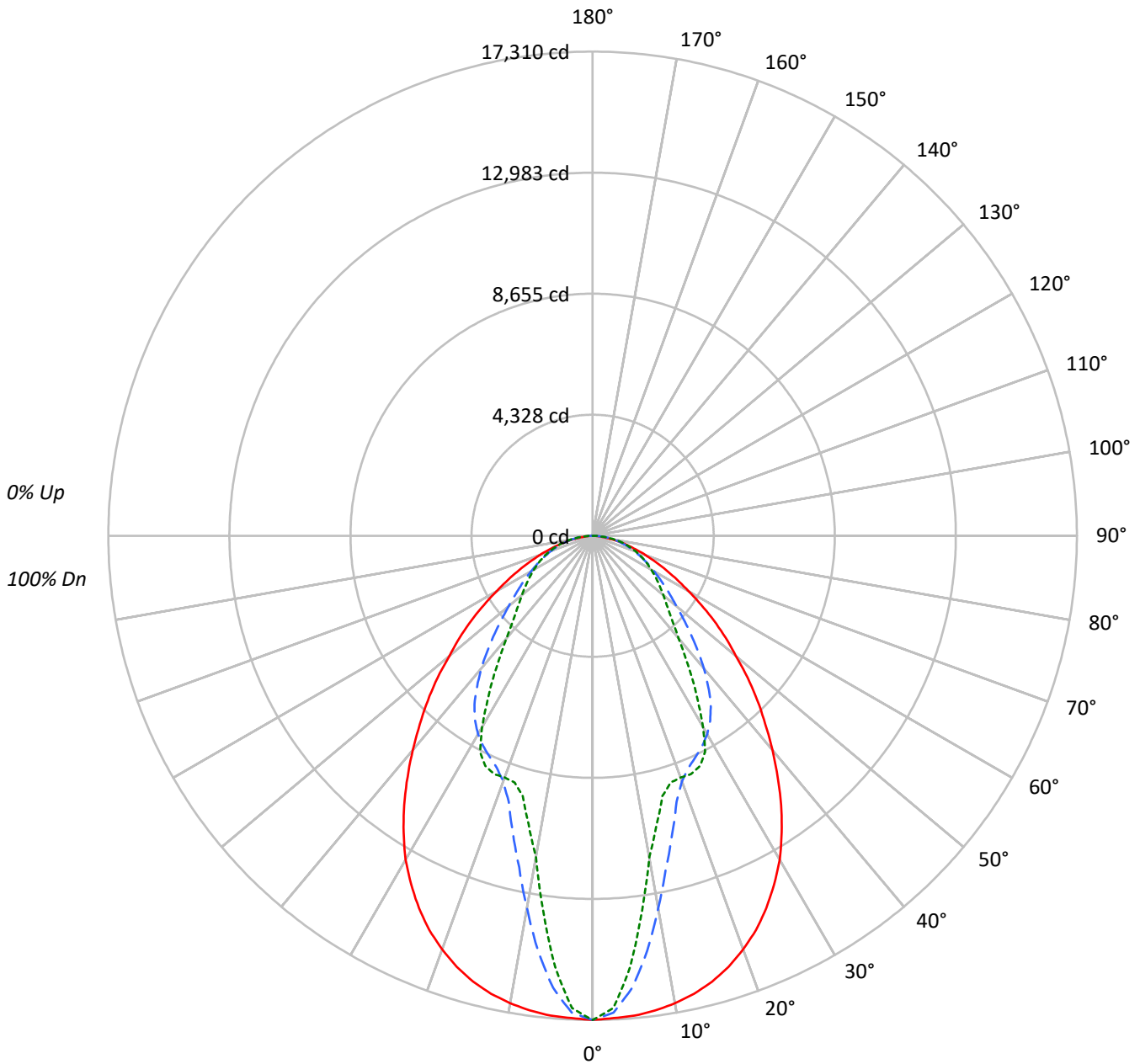
Lumens per Lamp: N/A
Luminaire Lumens: 25370.0 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.54 / 0.94
Luminous Opening: Rectangular (W 1' x L: 2.04' x H: 0')
CIE Type: Direct

Input Watts (W): 195
Input Voltage (V): NR
Input Current (A_{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

TEST NUMBER: P860085

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

Luminous Intensity Polar Plot





TEST NUMBER: P860085

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

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	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86								
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74								
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64								
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56								
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50								
6	74	62	54	48	73	61	54	48	60	53	47	58	52	47	56	51	47	45								
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	46	42	40								
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37								
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34								
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	91337	91337	91337
5°	91231	85939	81872
10°	90919	72439	62449
15°	90163	60132	52625
20°	88346	52417	51660
25°	85507	50717	52871
30°	81465	49903	48116
35°	75640	47422	39871
40°	68878	42572	32923
45°	62174	36940	28903
50°	54868	32121	27066
55°	48688	28969	26052
60°	41725	26789	25521
65°	36117	25177	25392
70°	30907	24219	25362
75°	25944	23520	25137
80°	19796	22729	24615
85°	12962	20160	18961



TEST NUMBER: P860085

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1475.9	5.8
10°-20°	3388.8	13.4
20°-30°	4579.8	18.1
30°-40°	4819.9	19.0
40°-50°	4089.9	16.1
50°-60°	3168.2	12.5
60°-70°	2206.5	8.7
70°-80°	1263.5	5.0
80°-90°	367.7	1.4
90°-100°	9.8	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°	9444.4	37.2
0°-40°	14264.3	56.2
0°-60°	21522.4	84.8
0°-90°	25360.2	100.0
90°-120°	9.8	0.0
90°-150°	9.8	0.0
90°-180°	10.0	0.0
0°-180°	25370.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17310	17310	17310	17310	17310	
5°	17224	16909	16225	15603	15458	###
15°	16506	14009	11008	9909	9634	4644
25°	14687	10375	8711	8964	9081	6742
35°	11743	7979	7362	6650	6190	7320
45°	8332	5992	4950	4068	3873	6417
55°	5293	4036	3149	2862	2832	4732
65°	2893	2368	2017	2017	2034	2890
75°	1273	1131	1154	1226	1233	1357
85°	214	278	333	313	313	272
90°	1	25	49	62	65	12
95°	1	4	8	8	7	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: P860085

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17310.4	17310.4	17310.4	17310.4	17310.4
2.5°	17260.2	17203.3	17064.6	16974.7	16904.7
5°	17224.5	16908.7	16225.4	15603.0	15457.6
7.5°	17117.5	16423.7	14963.4	13812.4	13521.6
10°	16969.4	15727.2	13520.3	12078.6	11655.7
12.5°	16772.5	14983.2	12138.0	10779.5	10572.0
15°	16505.6	14009.3	11008.1	9908.6	9633.8
17.5°	16159.4	13002.3	9965.5	9329.8	9253.2
20°	15733.8	12078.6	9335.1	9118.4	9200.3
22.5°	15255.5	11181.3	8969.1	9060.2	9213.5
25°	14687.2	10375.1	8711.4	8963.8	9081.4
27.5°	14048.9	9647.0	8474.8	8706.1	8706.1
30°	13371.0	9040.4	8190.7	8169.5	7897.3
32.5°	12579.4	8525.0	7819.3	7400.4	6996.0
35°	11742.9	7979.2	7362.1	6649.8	6189.9
37.5°	10865.4	7471.8	6783.3	5843.7	5415.5
40°	9999.8	6970.9	6180.7	5119.5	4779.9
42.5°	9138.2	6460.8	5553.0	4532.8	4264.5
45°	8332.1	5991.7	4950.4	4067.6	3873.3
47.5°	7512.8	5493.5	4394.0	3693.6	3558.8
50°	6684.2	4988.7	3913.0	3396.3	3297.2
52.5°	5986.4	4518.2	3504.6	3114.8	3055.3
55°	5292.6	4035.9	3149.1	2862.4	2832.0
57.5°	4604.1	3586.6	2824.1	2631.1	2624.5
60°	3953.9	3166.3	2538.6	2432.9	2418.4
62.5°	3400.2	2748.7	2267.7	2217.5	2224.1
65°	2892.8	2368.1	2016.6	2016.6	2033.8
67.5°	2422.3	2017.9	1786.7	1817.1	1840.9
70°	2003.4	1700.8	1569.9	1622.8	1644.0
72.5°	1606.9	1406.1	1362.5	1420.6	1437.8
75°	1272.6	1131.2	1153.7	1226.4	1233.0
77.5°	943.6	890.7	948.8	1028.1	1042.7
80°	651.5	656.8	748.0	803.5	810.1
82.5°	420.2	458.6	560.3	589.4	578.8
85°	214.1	277.5	333.0	313.2	313.2
87.5°	81.9	120.3	141.4	166.5	175.8
90°	1.3	25.1	48.9	62.1	64.8
92.5°	1.3	6.6	10.6	11.9	10.6
95°	1.3	4.0	7.9	7.9	6.6
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: P860085

CATALOG NUMBER: SPHB-30SE-N-L935-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)