

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: P860090

Luminaire Tested: **SPHB-30SE-W-L750-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: P860090
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-L750-CD
Description: 30000 Lumen Standard Efficacy Select Pro High Bay with Wide Lens and, 5000K 70CRI LEDs
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

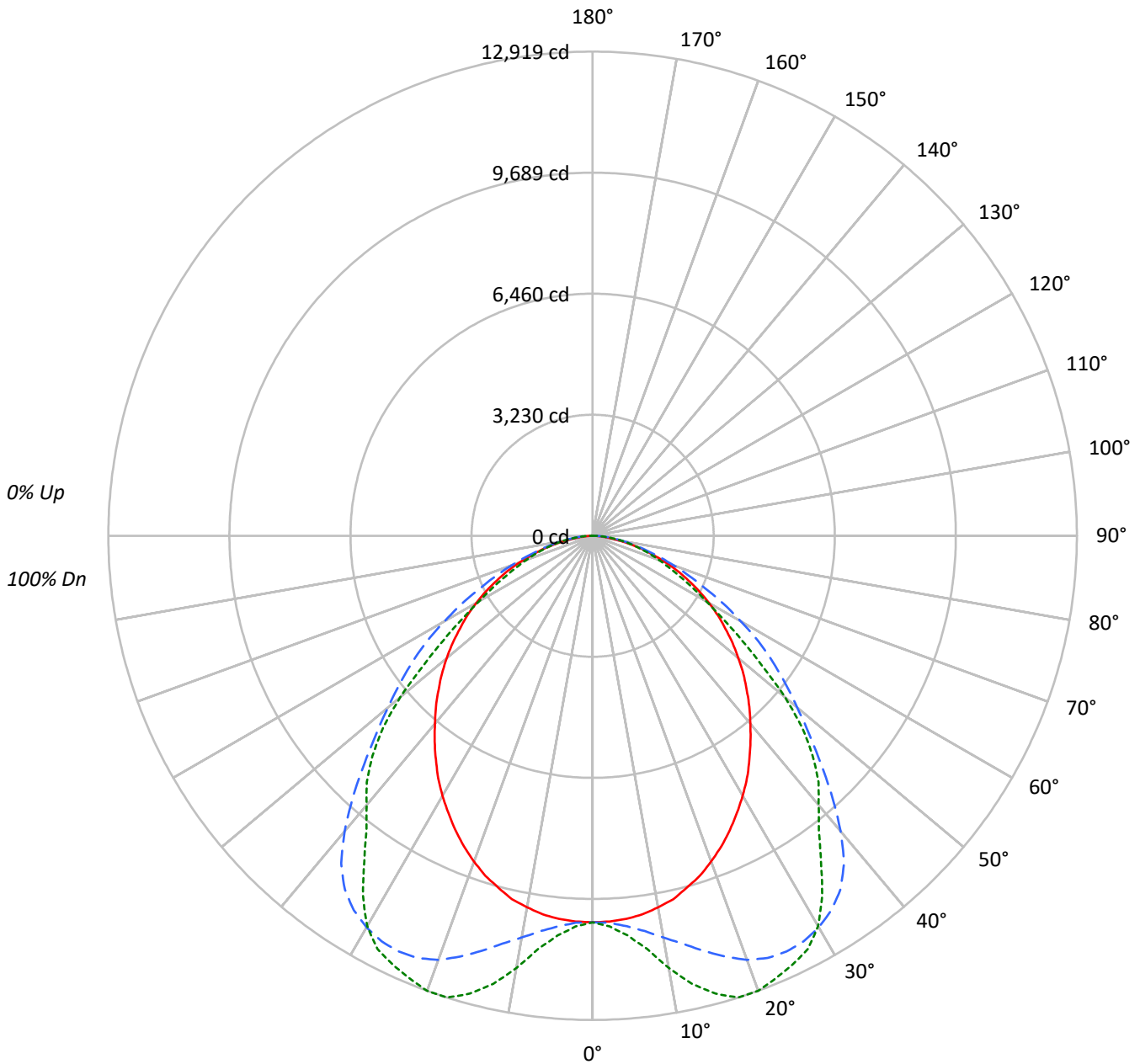
Lumens per Lamp: N/A
Luminaire Lumens: 32448.0 lumens
Efficiency: N/A
Efficacy: 166.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.5 / 1.51
Luminous Opening: Rectangular (W 1' x L: 2.04' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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°	54413	54413	54413
5°	54354	55379	56693
10°	53924	58302	62722
15°	53082	62644	69088
20°	51933	67625	72539
25°	50434	71273	73490
30°	48792	73503	73291
35°	46961	74241	68388
40°	45069	70889	64594
45°	43364	64256	61973
50°	41674	58426	54941
55°	39768	53982	44708
60°	37801	48126	36820
65°	35198	41354	31926
70°	32022	35307	28875
75°	27499	29632	26474
80°	21495	25418	24555
85°	14536	21570	20239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1012.5	3.1
10°-20°	3210.5	9.9
20°-30°	5254.2	16.2
30°-40°	6409.8	19.8
40°-50°	6348.2	19.6
50°-60°	5076.5	15.6
60°-70°	3166.9	9.8
70°-80°	1551.6	4.8
80°-90°	407.0	1.3
90°-100°	10.7	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°	9477.3	29.2
0°-40°	15887.1	49.0
0°-60°	27311.8	84.2
0°-90°	32437.3	100.0
90°-120°	10.7	0.0
90°-150°	10.7	0.0
90°-180°	11.0	0.0
0°-180°	32448.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10312	10312	10312	10312	10312	
5°	10262	10307	10456	10638	10704	974
15°	9717	10283	11468	12380	12648	2739
25°	8663	10129	12242	12597	12623	3986
35°	7291	9742	11526	10910	10617	4560
45°	5811	9028	8611	8322	8305	4489
55°	4323	6932	5868	5301	4860	3873
65°	2819	3889	3312	2747	2557	2795
75°	1349	1652	1454	1331	1299	1432
85°	240	341	356	338	334	297
90°	1	35	63	80	83	14
95°	1	5	5	4	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10312.5	10312.5	10312.5	10312.5	10312.5
2.5°	10302.1	10298.3	10335.7	10404.1	10435.1
5°	10262.1	10307.3	10455.7	10637.7	10703.6
7.5°	10189.8	10311.2	10639.0	10973.4	11115.4
10°	10064.6	10313.7	10881.7	11471.6	11706.6
12.5°	9935.5	10304.7	11151.5	11986.7	12243.5
15°	9717.4	10282.8	11467.8	12380.4	12647.6
17.5°	9514.7	10257.0	11772.4	12714.7	12917.4
20°	9248.8	10219.5	12043.5	12816.7	12918.6
22.5°	8970.0	10189.8	12193.2	12748.3	12779.2
25°	8662.8	10129.2	12242.3	12597.2	12623.0
27.5°	8334.9	10074.9	12195.8	12410.1	12432.0
30°	8008.3	9976.8	12064.1	12118.3	12029.3
32.5°	7666.3	9878.7	11851.1	11607.2	11399.3
35°	7290.6	9741.9	11525.8	10910.1	10617.1
37.5°	6920.2	9610.2	11018.5	10130.5	9909.7
40°	6543.2	9447.6	10291.8	9402.4	9377.9
42.5°	6187.0	9272.0	9469.5	8835.7	8918.4
45°	5811.3	9028.1	8611.1	8322.0	8305.2
47.5°	5455.1	8691.2	7830.2	7754.0	7582.3
50°	5076.8	8226.5	7117.6	7045.4	6693.0
52.5°	4706.4	7634.0	6481.3	6210.2	5696.4
55°	4323.0	6931.8	5868.1	5301.4	4860.0
57.5°	3966.7	6159.9	5244.7	4510.2	4113.9
60°	3582.1	5377.6	4560.5	3815.7	3489.1
62.5°	3205.1	4607.0	3940.9	3224.5	3007.6
65°	2819.2	3889.3	3312.3	2746.9	2557.1
67.5°	2450.0	3268.4	2768.8	2315.8	2189.3
70°	2075.7	2651.4	2288.6	1945.3	1871.7
72.5°	1689.7	2118.3	1851.1	1641.9	1586.4
75°	1348.9	1652.3	1453.5	1330.8	1298.6
77.5°	1004.3	1228.9	1135.9	1063.6	1054.6
80°	707.4	886.8	836.5	822.3	808.1
82.5°	451.8	579.6	595.1	586.0	575.7
85°	240.1	340.8	356.3	338.2	334.3
87.5°	96.8	148.4	160.1	176.8	182.0
90°	1.3	34.9	63.3	80.0	82.6
92.5°	1.3	7.7	9.0	9.0	7.7
95°	1.3	5.2	5.2	3.9	2.6
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



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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)