

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: P860072

Luminaire Tested: **SPHB-30SE-M-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: P860072
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-L750-CD
Description: 30000 Lumen Standard Efficacy Select Pro High Bay with Medium Lens
and, 5000K 70CRI LEDs
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

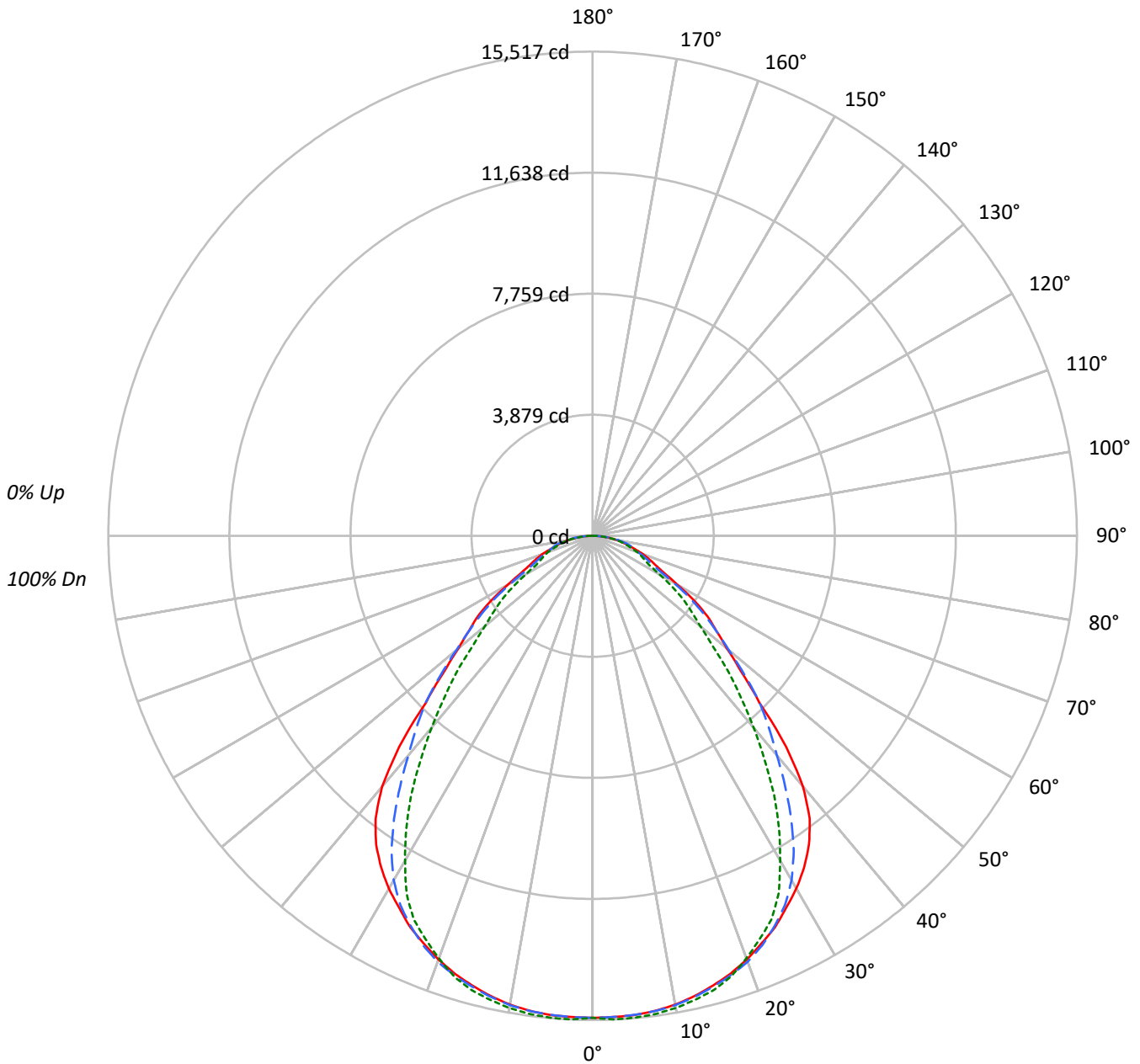
Lumens per Lamp: N/A
Luminaire Lumens: 32063.0 lumens
Efficiency: N/A
Efficacy: 164.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.16 / 1.22
Luminous Opening: Rectangular (W 1' x L: 2.04' x H: 0')
CIE Type: Direct

Input Watts (W): 195
Input Voltage (V): NR
Input Current (A_{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					
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°	81507	81507	81507
5°	81667	81645	82110
10°	81738	81825	82328
15°	81500	81711	82279
20°	81144	81555	80903
25°	80551	80325	78961
30°	79530	77656	73225
35°	77861	71443	65262
40°	72257	63234	55277
45°	56372	56524	45745
50°	46042	46693	36944
55°	41252	39696	32461
60°	33024	31261	25972
65°	27676	25335	22969
70°	26276	24139	23385
75°	23842	25628	22554
80°	23959	26186	23774
85°	20844	24422	19857



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1468.8	4.6
10°-20°	4224.2	13.2
20°-30°	6306.0	19.7
30°-40°	6880.9	21.5
40°-50°	5628.9	17.6
50°-60°	3701.0	11.5
60°-70°	2123.3	6.6
70°-80°	1286.7	4.0
80°-90°	432.1	1.3
90°-100°	11.2	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°	11998.9	37.4
0°-40°	18879.8	58.9
0°-60°	28209.7	88.0
0°-90°	32051.7	100.0
90°-120°	11.2	0.0
90°-150°	11.2	0.0
90°-180°	11.0	0.0
0°-180°	32063.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15447	15447	15447	15447	15447	
5°	15419	15394	15415	15478	15502	###
15°	14920	14918	14958	15054	15062	4211
25°	13836	13868	13797	13630	13563	6365
35°	12088	11815	11091	10336	10132	7492
45°	7555	8119	7575	6687	6130	5997
55°	4484	4362	4315	3708	3529	3949
65°	2217	2184	2029	1974	1840	2266
75°	1170	1265	1257	1206	1106	1266
85°	344	391	403	352	328	373
90°	2	28	57	67	71	16
95°	2	4	6	6	4	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: P860072

CATALOG NUMBER: SPHB-30SE-M-L750-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15447.3	15447.3	15447.3	15447.3	15447.3
2.5°	15437.2	15414.7	15435.1	15498.3	15516.6
5°	15418.8	15394.4	15414.7	15477.9	15502.4
7.5°	15355.7	15341.4	15361.8	15424.9	15455.5
10°	15255.8	15239.5	15272.1	15327.1	15365.9
12.5°	15107.1	15101.0	15131.6	15211.0	15227.3
15°	14919.7	14917.6	14958.4	15054.1	15062.3
17.5°	14707.8	14705.7	14756.7	14819.8	14797.4
20°	14451.1	14465.3	14524.4	14465.3	14408.3
22.5°	14143.4	14188.3	14202.5	14017.1	13988.6
25°	13835.8	13868.4	13797.1	13630.0	13562.8
27.5°	13438.5	13477.2	13344.8	13106.4	12914.9
30°	13053.4	13016.8	12745.8	12285.3	12018.5
32.5°	12611.3	12480.9	11994.0	11358.3	11115.9
35°	12087.7	11814.7	11091.4	10335.6	10131.8
37.5°	11425.6	10926.4	10135.9	9347.5	9039.8
40°	10490.4	9913.8	9180.4	8365.4	8025.2
42.5°	9180.4	8966.5	8359.3	7442.5	7037.1
45°	7554.6	8118.9	7574.9	6686.7	6130.4
47.5°	6466.6	7251.0	6597.0	5955.2	5189.2
50°	5608.9	6148.8	5688.3	5109.7	4500.6
52.5°	4989.5	5152.5	4967.1	4331.5	3985.1
55°	4484.3	4362.0	4315.2	3708.0	3528.7
57.5°	3856.7	3789.5	3669.3	3233.3	2997.0
60°	3129.4	3272.0	2962.3	2838.1	2461.1
62.5°	2571.2	2711.7	2379.6	2371.5	2057.7
65°	2216.7	2184.1	2029.2	1974.2	1839.7
67.5°	1962.0	1860.1	1807.1	1735.8	1689.0
70°	1703.2	1660.5	1564.7	1579.0	1515.8
72.5°	1420.0	1475.1	1379.3	1405.8	1291.7
75°	1169.5	1265.2	1257.1	1206.1	1106.3
77.5°	963.7	1065.5	1083.9	1037.0	955.5
80°	788.5	857.7	861.8	833.3	782.4
82.5°	578.6	619.4	649.9	601.0	568.4
85°	344.3	391.2	403.4	352.5	328.0
87.5°	112.1	156.9	175.2	181.3	183.4
90°	2.0	28.5	57.0	67.2	71.3
92.5°	2.0	8.1	12.2	18.3	20.4
95°	2.0	4.1	6.1	6.1	4.1
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



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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)