

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: P860073

Luminaire Tested: **SPHB-30SE-M-L835-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: P860073
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-L835-CD
Description: 30000 Lumen Standard Efficacy Select Pro High Bay with Medium Lens
and, 3500K 80CRI LEDs
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

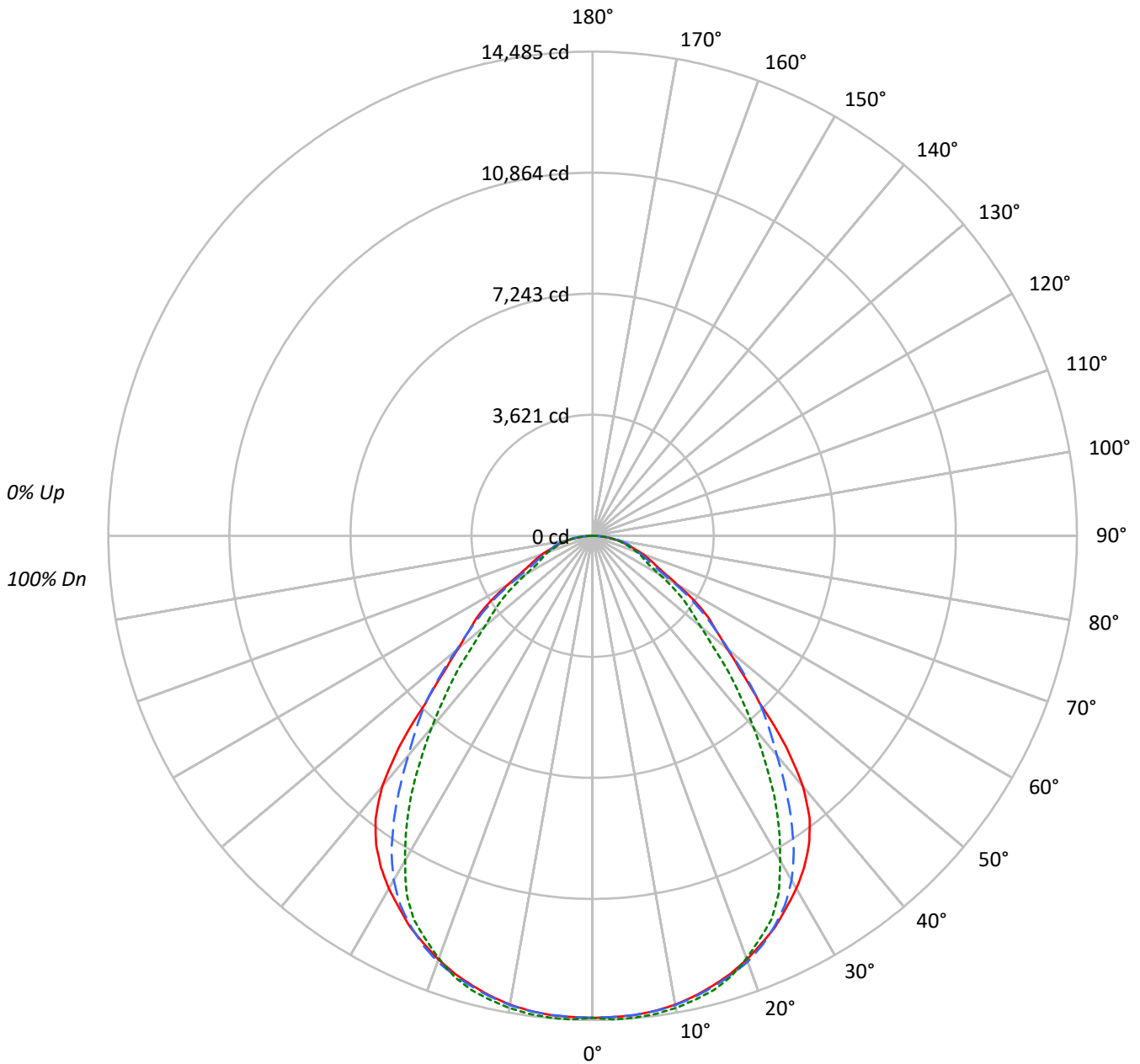
Lumens per Lamp: N/A
Luminaire Lumens: 29931.0 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.16 / 1.22
Luminous Opening: Rectangular (W 1' x L: 2.04' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P860073

CATALOG NUMBER: SPHB-30SE-M-L835-CD

Luminous Intensity Polar Plot





TEST NUMBER: P860073

CATALOG NUMBER: SPHB-30SE-M-L835-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	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°	76087	76087	76087
5°	76237	76217	76650
10°	76303	76384	76853
15°	76080	76278	76807
20°	75748	76132	75524
25°	75194	74984	73710
30°	74243	72493	68356
35°	72684	66693	60923
40°	67452	59029	51601
45°	52623	52766	42704
50°	42980	43589	34487
55°	38509	37056	30303
60°	30828	29183	24245
65°	25835	23651	21442
70°	24529	22535	21830
75°	22256	23924	21053
80°	22364	24445	22191
85°	19458	22799	18537



TEST NUMBER: P860073

CATALOG NUMBER: SPHB-30SE-M-L835-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1371.1	4.6
10°-20°	3943.3	13.2
20°-30°	5886.7	19.7
30°-40°	6423.4	21.5
40°-50°	5254.6	17.6
50°-60°	3454.9	11.5
60°-70°	1982.1	6.6
70°-80°	1201.1	4.0
80°-90°	403.3	1.3
90°-100°	10.5	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°	11201.1	37.4
0°-40°	17624.4	58.9
0°-60°	26333.9	88.0
0°-90°	29920.5	100.0
90°-120°	10.5	0.0
90°-150°	10.5	0.0
90°-180°	10.0	0.0
0°-180°	29931.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14420	14420	14420	14420	14420	
5°	14394	14371	14390	14449	14472	###
15°	13928	13926	13964	14053	14061	3931
25°	12916	12946	12880	12724	12661	5942
35°	11284	11029	10354	9648	9458	6994
45°	7052	7579	7071	6242	5723	5598
55°	4186	4072	4028	3462	3294	3687
65°	2069	2039	1894	1843	1717	2115
75°	1092	1181	1174	1126	1033	1182
85°	321	365	377	329	306	349
90°	2	27	53	63	67	15
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: P860073

CATALOG NUMBER: SPHB-30SE-M-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14420.2	14420.2	14420.2	14420.2	14420.2
2.5°	14410.7	14389.8	14408.8	14467.7	14484.9
5°	14393.6	14370.7	14389.8	14448.7	14471.5
7.5°	14334.6	14321.3	14340.3	14399.3	14427.8
10°	14241.4	14226.2	14256.6	14308.0	14344.1
12.5°	14102.6	14096.9	14125.4	14199.6	14214.8
15°	13927.6	13925.7	13963.7	14053.1	14060.7
17.5°	13729.8	13727.9	13775.4	13834.4	13813.5
20°	13490.2	13503.5	13558.6	13503.5	13450.2
22.5°	13203.0	13244.8	13258.1	13085.1	13058.4
25°	12915.8	12946.2	12879.7	12723.7	12660.9
27.5°	12544.9	12581.1	12457.4	12234.9	12056.1
30°	12185.5	12151.2	11898.3	11468.4	11219.3
32.5°	11772.7	11651.0	11196.5	10603.1	10376.8
35°	11284.0	11029.1	10353.9	9648.3	9458.1
37.5°	10665.8	10199.9	9461.9	8725.9	8438.7
40°	9792.9	9254.6	8570.0	7809.2	7491.6
42.5°	8570.0	8370.3	7803.5	6947.6	6569.2
45°	7052.2	7579.1	7071.3	6242.0	5722.8
47.5°	6036.6	6768.9	6158.3	5559.2	4844.1
50°	5235.9	5739.9	5310.1	4770.0	4201.3
52.5°	4657.7	4809.9	4636.8	4043.4	3720.1
55°	4186.1	4072.0	4028.2	3461.5	3294.1
57.5°	3600.3	3537.5	3425.3	3018.3	2797.7
60°	2921.3	3054.4	2765.4	2649.3	2297.5
62.5°	2400.2	2531.4	2221.4	2213.8	1920.9
65°	2069.3	2038.8	1894.3	1842.9	1717.4
67.5°	1831.5	1736.4	1687.0	1620.4	1576.7
70°	1590.0	1550.0	1460.7	1474.0	1415.0
72.5°	1325.6	1377.0	1287.6	1312.3	1205.8
75°	1091.7	1181.1	1173.5	1125.9	1032.7
77.5°	899.6	994.7	1011.8	968.1	892.0
80°	736.0	800.7	804.5	777.9	730.3
82.5°	540.1	578.2	606.7	561.1	530.6
85°	321.4	365.2	376.6	329.0	306.2
87.5°	104.6	146.4	163.6	169.3	171.2
90°	1.9	26.6	53.3	62.8	66.6
92.5°	1.9	7.6	11.4	17.1	19.0
95°	1.9	3.8	5.7	5.7	3.8
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: P860073

CATALOG NUMBER: SPHB-30SE-M-L835-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)