

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: P860091

Luminaire Tested: **SPHB-30SE-W-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: P860091
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-L835-CD
Description: 30000 Lumen Standard Efficacy Select Pro High Bay with Wide Lens
and, 3500K 80CRI LEDs
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

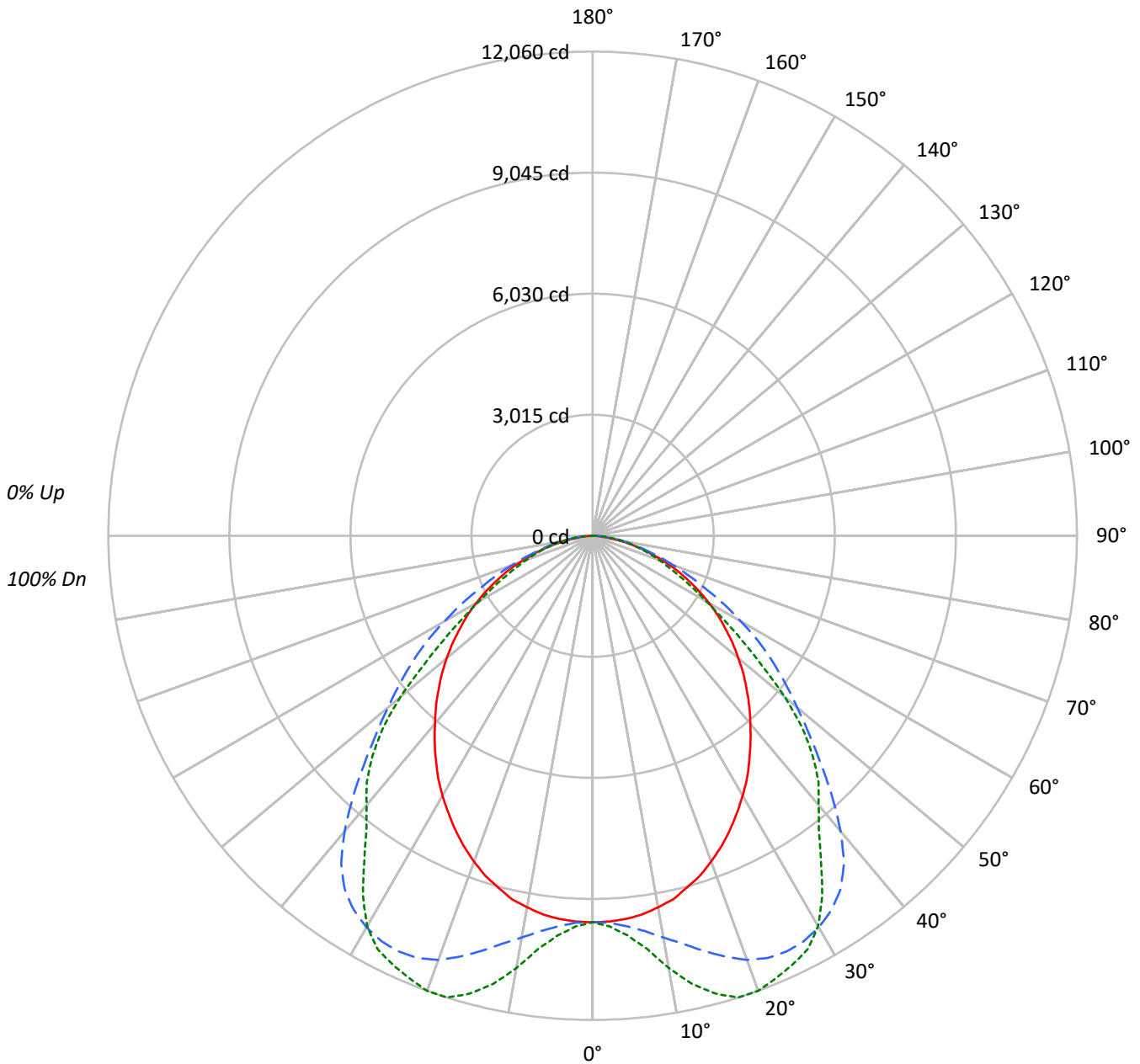
Lumens per Lamp: N/A
Luminaire Lumens: 30290.0 lumens
Efficiency: N/A
Efficacy: 155.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.5 / 1.51
Luminous Opening: Rectangular (W 1' x L: 2.04' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P860091

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

Luminous Intensity Polar Plot





TEST NUMBER: P860091

CATALOG NUMBER: SPHB-30SE-W-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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62			
4	84	73	64	58	82	71	63	57	69	62	57	66	61	56	64	59	55	53			
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46			
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40			
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29			
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	50794	50794	50794
5°	50739	51697	52922
10°	50338	54425	58550
15°	49551	58477	64493
20°	48479	63127	67715
25°	47079	66533	68602
30°	45547	68615	68416
35°	43838	69304	63840
40°	42072	66174	60298
45°	40480	59983	57852
50°	38903	54541	51286
55°	37123	50392	41735
60°	35287	44926	34372
65°	32857	38604	29803
70°	29892	32959	26954
75°	25671	27660	24713
80°	20064	23725	22920
85°	13567	20136	18895



TEST NUMBER: P860091

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	945.2	3.1
10°-20°	2997.0	9.9
20°-30°	4904.8	16.2
30°-40°	5983.5	19.8
40°-50°	5926.0	19.6
50°-60°	4738.9	15.6
60°-70°	2956.3	9.8
70°-80°	1448.4	4.8
80°-90°	379.9	1.3
90°-100°	10.0	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°	8847.0	29.2
0°-40°	14830.5	49.0
0°-60°	25495.4	84.2
0°-90°	30280.0	100.0
90°-120°	10.0	0.0
90°-150°	10.0	0.0
90°-180°	10.0	0.0
0°-180°	30290.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9627	9627	9627	9627	9627	
5°	9580	9622	9760	9930	9992	909
15°	9071	9599	10705	11557	11806	2557
25°	8087	9456	11428	11759	11784	3721
35°	6806	9094	10759	10184	9911	4257
45°	5425	8428	8038	7768	7753	4190
55°	4036	6471	5478	4949	4537	3616
65°	2632	3631	3092	2564	2387	2610
75°	1259	1542	1357	1242	1212	1337
85°	224	318	333	316	312	278
90°	1	32	59	75	77	13
95°	1	5	5	4	2	0
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: P860091

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9626.6	9626.6	9626.6	9626.6	9626.6
2.5°	9617.0	9613.4	9648.3	9712.2	9741.1
5°	9579.6	9621.8	9760.4	9930.3	9991.7
7.5°	9512.1	9625.4	9931.5	10243.6	10376.1
10°	9395.3	9627.8	10158.0	10708.7	10928.0
12.5°	9274.8	9619.4	10409.9	11189.5	11429.3
15°	9071.1	9598.9	10705.1	11557.0	11806.4
17.5°	8881.9	9574.8	10989.4	11869.1	12058.3
20°	8633.7	9539.9	11242.5	11964.3	12059.5
22.5°	8373.4	9512.1	11382.3	11900.4	11929.3
25°	8086.6	9455.5	11428.1	11759.4	11783.5
27.5°	7780.6	9404.9	11384.7	11584.7	11605.2
30°	7475.7	9313.3	11261.8	11312.4	11229.2
32.5°	7156.4	9221.7	11063.0	10835.2	10641.2
35°	6805.7	9094.0	10759.3	10184.5	9911.0
37.5°	6459.9	8971.1	10285.7	9456.7	9250.7
40°	6108.1	8819.3	9607.3	8777.1	8754.2
42.5°	5775.5	8655.4	8839.8	8248.1	8325.2
45°	5424.8	8427.7	8038.4	7768.5	7752.9
47.5°	5092.3	8113.2	7309.4	7238.3	7078.1
50°	4739.2	7679.4	6644.3	6576.8	6247.8
52.5°	4393.4	7126.3	6050.2	5797.2	5317.6
55°	4035.5	6470.8	5477.9	4948.9	4536.8
57.5°	3702.9	5750.2	4895.8	4210.2	3840.3
60°	3343.8	5020.0	4257.2	3561.9	3257.1
62.5°	2992.0	4300.6	3678.8	3010.0	2807.6
65°	2631.7	3630.6	3092.0	2564.2	2387.1
67.5°	2287.1	3051.0	2584.7	2161.7	2043.7
70°	1937.6	2475.0	2136.4	1815.9	1747.2
72.5°	1577.3	1977.4	1727.9	1532.7	1480.9
75°	1259.2	1542.4	1356.8	1242.3	1212.2
77.5°	937.5	1147.1	1060.4	992.9	984.5
80°	660.3	827.8	780.8	767.6	754.3
82.5°	421.7	541.0	555.5	547.1	537.4
85°	224.1	318.1	332.6	315.7	312.1
87.5°	90.4	138.6	149.4	165.1	169.9
90°	1.2	32.5	59.0	74.7	77.1
92.5°	1.2	7.2	8.4	8.4	7.2
95°	1.2	4.8	4.8	3.6	2.4
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: P860091

CATALOG NUMBER: SPHB-30SE-W-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)