

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: P860064

Luminaire Tested: **SPHB-30HE-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: P860064
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-30HE-W-L835-CD
Description: 30000 Lumen High Efficacy Select Pro High Bay with Wide Lens and, 3500K 80CRI LEDs
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

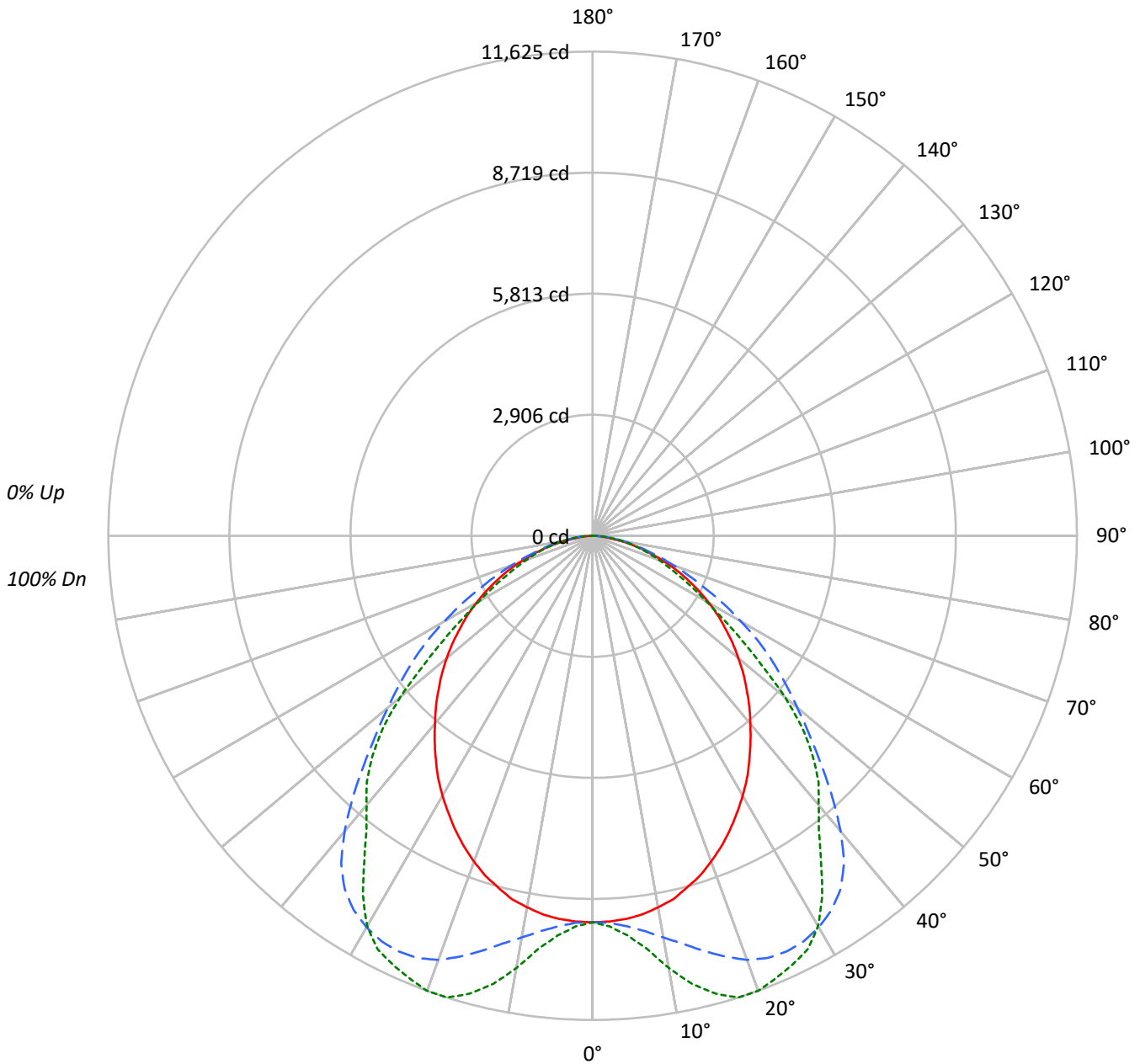
Lumens per Lamp: N/A
Luminaire Lumens: 29198.0 lumens
Efficiency: N/A
Efficacy: 164.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.5 / 1.51
Luminous Opening: Rectangular (W 1' x L: 2.04' x H: 0')
CIE Type: Direct

Input Watts (W): 177.6
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									
RC	80									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°	48963	48963	48963
5°	48910	49833	51014
10°	48523	52463	56439
15°	47765	56369	62168
20°	46731	60852	65273
25°	45382	64135	66129
30°	43905	66141	65950
35°	42258	66806	61539
40°	40555	63789	58124
45°	39021	57820	55766
50°	37500	52574	49438
55°	35785	48575	40230
60°	34015	43306	33132
65°	31672	37212	28728
70°	28815	31771	25983
75°	24745	26664	23822
80°	19341	22871	22093
85°	13077	19409	18211



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	911.1	3.1
10°-20°	2889.0	9.9
20°-30°	4728.0	16.2
30°-40°	5767.8	19.8
40°-50°	5712.4	19.6
50°-60°	4568.0	15.6
60°-70°	2849.7	9.8
70°-80°	1396.2	4.8
80°-90°	366.2	1.3
90°-100°	9.6	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°	8528.0	29.2
0°-40°	14295.8	49.0
0°-60°	24576.3	84.2
0°-90°	29188.4	100.0
90°-120°	9.6	0.0
90°-150°	9.6	0.0
90°-180°	10.0	0.0
0°-180°	29198.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9280	9280	9280	9280	9280	
5°	9234	9275	9408	9572	9632	876
15°	8744	9253	10319	11140	11381	2465
25°	7795	9115	11016	11336	11359	3587
35°	6560	8766	10371	9817	9554	4104
45°	5229	8124	7749	7488	7473	4039
55°	3890	6238	5280	4770	4373	3485
65°	2537	3500	2980	2472	2301	2515
75°	1214	1487	1308	1198	1168	1289
85°	216	307	321	304	301	268
90°	1	31	57	72	74	12
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9279.6	9279.6	9279.6	9279.6	9279.6
2.5°	9270.3	9266.8	9300.5	9362.0	9389.9
5°	9234.3	9274.9	9408.5	9572.3	9631.5
7.5°	9169.2	9278.4	9573.4	9874.3	10002.0
10°	9056.5	9280.7	9791.8	10322.6	10534.0
12.5°	8940.4	9272.6	10034.6	10786.1	11017.2
15°	8744.1	9252.8	10319.1	11140.4	11380.8
17.5°	8561.7	9229.6	10593.3	11441.2	11623.6
20°	8322.4	9195.9	10837.2	11533.0	11624.7
22.5°	8071.6	9169.2	10971.9	11471.4	11499.3
25°	7795.1	9114.6	11016.1	11335.5	11358.7
27.5°	7500.1	9065.8	10974.2	11167.1	11186.8
30°	7206.2	8977.6	10855.8	10904.6	10824.4
32.5°	6898.4	8889.3	10664.1	10444.6	10257.6
35°	6560.4	8766.2	10371.4	9817.4	9553.7
37.5°	6227.0	8647.7	9914.9	9115.8	8917.2
40°	5887.9	8501.3	9261.0	8460.7	8438.6
42.5°	5567.3	8343.4	8521.1	7950.8	8025.1
45°	5229.3	8123.8	7748.6	7488.5	7473.4
47.5°	4908.7	7820.7	7045.9	6977.4	6822.9
50°	4568.3	7402.5	6404.7	6339.7	6022.6
52.5°	4235.0	6869.4	5832.1	5588.2	5125.9
55°	3890.0	6237.5	5280.4	4770.5	4373.2
57.5°	3569.4	5542.9	4719.3	4058.4	3701.8
60°	3223.3	4839.0	4103.7	3433.5	3139.6
62.5°	2884.1	4145.5	3546.2	2901.5	2706.4
65°	2536.8	3499.7	2980.5	2471.8	2301.0
67.5°	2204.6	2941.0	2491.5	2083.8	1970.0
70°	1867.8	2385.8	2059.4	1750.4	1684.2
72.5°	1520.5	1906.1	1665.7	1477.5	1427.5
75°	1213.8	1486.8	1307.9	1197.5	1168.5
77.5°	903.7	1105.8	1022.2	957.1	949.0
80°	636.5	798.0	752.7	739.9	727.1
82.5°	406.5	521.5	535.5	527.3	518.0
85°	216.0	306.6	320.6	304.3	300.8
87.5°	87.1	133.6	144.0	159.1	163.8
90°	1.2	31.4	56.9	72.0	74.3
92.5°	1.2	7.0	8.1	8.1	7.0
95°	1.2	4.6	4.6	3.5	2.3
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)