

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: P860065

Luminaire Tested: **SPHB-30HE-W-L840-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: P860065
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-L840-CD
Description: 30000 Lumen High Efficacy Select Pro High Bay with Wide Lens and, 4000K 80CRI LEDs
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

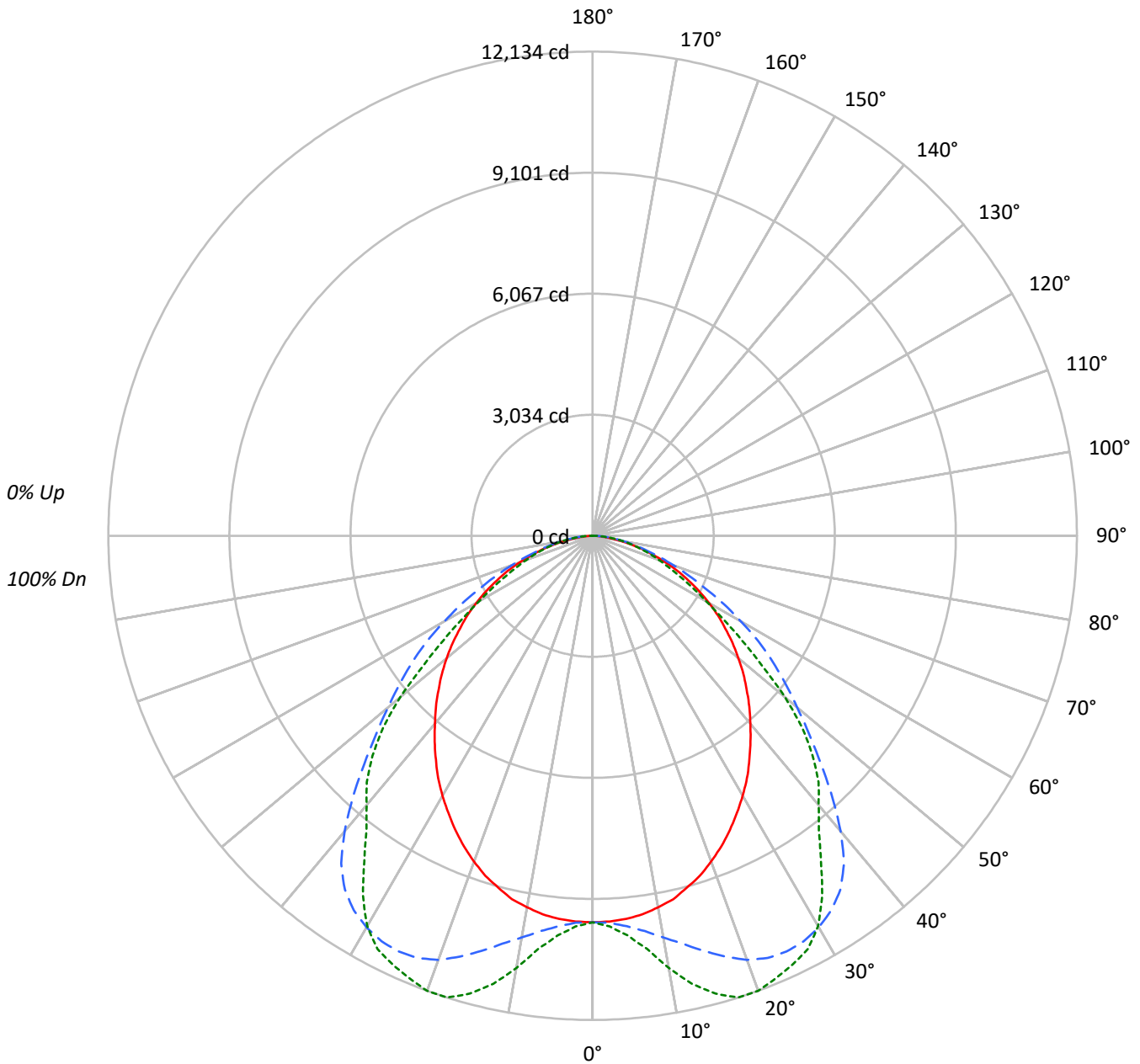
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30477.0 lumens
Efficiency: N/A
Efficacy: 171.6 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°	51107	51107	51107
5°	51053	52016	53249
10°	50649	54761	58912
15°	49857	58838	64891
20°	48778	63517	68133
25°	47370	66944	69026
30°	45829	69038	68839
35°	44109	69732	64234
40°	42332	66582	60671
45°	40730	60353	58209
50°	39143	54877	51603
55°	37352	50703	41992
60°	35505	45203	34584
65°	33059	38842	29987
70°	30077	33162	27121
75°	25830	27832	24865
80°	20188	23871	23063
85°	13652	20257	19010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	951.0	3.1
10°-20°	3015.5	9.9
20°-30°	4935.1	16.2
30°-40°	6020.4	19.8
40°-50°	5962.6	19.6
50°-60°	4768.1	15.6
60°-70°	2974.5	9.8
70°-80°	1457.4	4.8
80°-90°	382.2	1.3
90°-100°	10.1	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°	8901.6	29.2
0°-40°	14922.1	49.0
0°-60°	25652.8	84.2
0°-90°	30466.9	100.0
90°-120°	10.1	0.0
90°-150°	10.1	0.0
90°-180°	10.0	0.0
0°-180°	30477.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9686	9686	9686	9686	9686	
5°	9639	9681	9821	9992	10053	914
15°	9127	9658	10771	11628	11879	2573
25°	8137	9514	11499	11832	11856	3744
35°	6848	9150	10826	10247	9972	4283
45°	5458	8480	8088	7816	7801	4216
55°	4060	6511	5512	4979	4565	3638
65°	2648	3653	3111	2580	2402	2626
75°	1267	1552	1365	1250	1220	1345
85°	226	320	335	318	314	279
90°	1	33	59	75	78	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9686.0	9686.0	9686.0	9686.0	9686.0
2.5°	9676.3	9672.7	9707.9	9772.1	9801.2
5°	9638.8	9681.2	9820.6	9991.6	10053.4
7.5°	9570.9	9684.8	9992.8	10306.8	10440.2
10°	9453.3	9687.3	10220.7	10774.8	10995.5
12.5°	9332.0	9678.8	10474.1	11258.6	11499.8
15°	9127.1	9658.2	10771.2	11628.3	11879.3
17.5°	8936.8	9633.9	11057.3	11942.4	12132.7
20°	8687.0	9598.8	11311.9	12038.1	12133.9
22.5°	8425.1	9570.9	11452.5	11973.9	12003.0
25°	8136.6	9513.9	11498.6	11832.0	11856.3
27.5°	7828.6	9463.0	11455.0	11656.2	11676.8
30°	7521.9	9370.8	11331.3	11382.2	11298.6
32.5°	7200.6	9278.7	11131.3	10902.1	10706.9
35°	6847.8	9150.2	10825.7	10247.4	9972.2
37.5°	6499.8	9026.5	10349.2	9515.1	9307.8
40°	6145.8	8873.7	9666.6	8831.3	8808.3
42.5°	5811.1	8708.8	8894.3	8299.0	8376.6
45°	5458.3	8479.7	8088.1	7816.5	7800.7
47.5°	5123.7	8163.2	7354.6	7283.0	7121.8
50°	4768.5	7726.8	6685.3	6617.4	6286.4
52.5°	4420.5	7170.3	6087.6	5833.0	5350.4
55°	4060.4	6510.7	5511.7	4979.4	4564.8
57.5°	3725.8	5785.7	4926.1	4236.2	3864.0
60°	3364.5	5051.0	4283.5	3583.9	3277.2
62.5°	3010.4	4327.1	3701.5	3028.6	2824.9
65°	2647.9	3653.0	3111.1	2580.0	2401.8
67.5°	2301.2	3069.9	2600.6	2175.1	2056.3
70°	1949.6	2490.3	2149.6	1827.1	1758.0
72.5°	1587.1	1989.6	1738.6	1542.2	1490.1
75°	1267.0	1551.9	1365.2	1250.0	1219.7
77.5°	943.3	1154.2	1066.9	999.0	990.5
80°	664.4	832.9	785.6	772.3	759.0
82.5°	424.3	544.4	558.9	550.4	540.7
85°	225.5	320.1	334.6	317.7	314.0
87.5°	90.9	139.4	150.3	166.1	171.0
90°	1.2	32.7	59.4	75.2	77.6
92.5°	1.2	7.3	8.5	8.5	7.3
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



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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)