

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: P860094

Luminaire Tested: **SPHB-30SE-W-L935-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: P860094
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-L935-CD
Description: 30000 Lumen Standard Efficacy Select Pro High Bay with Wide Lens
and, 3500K 90CRI LEDs
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

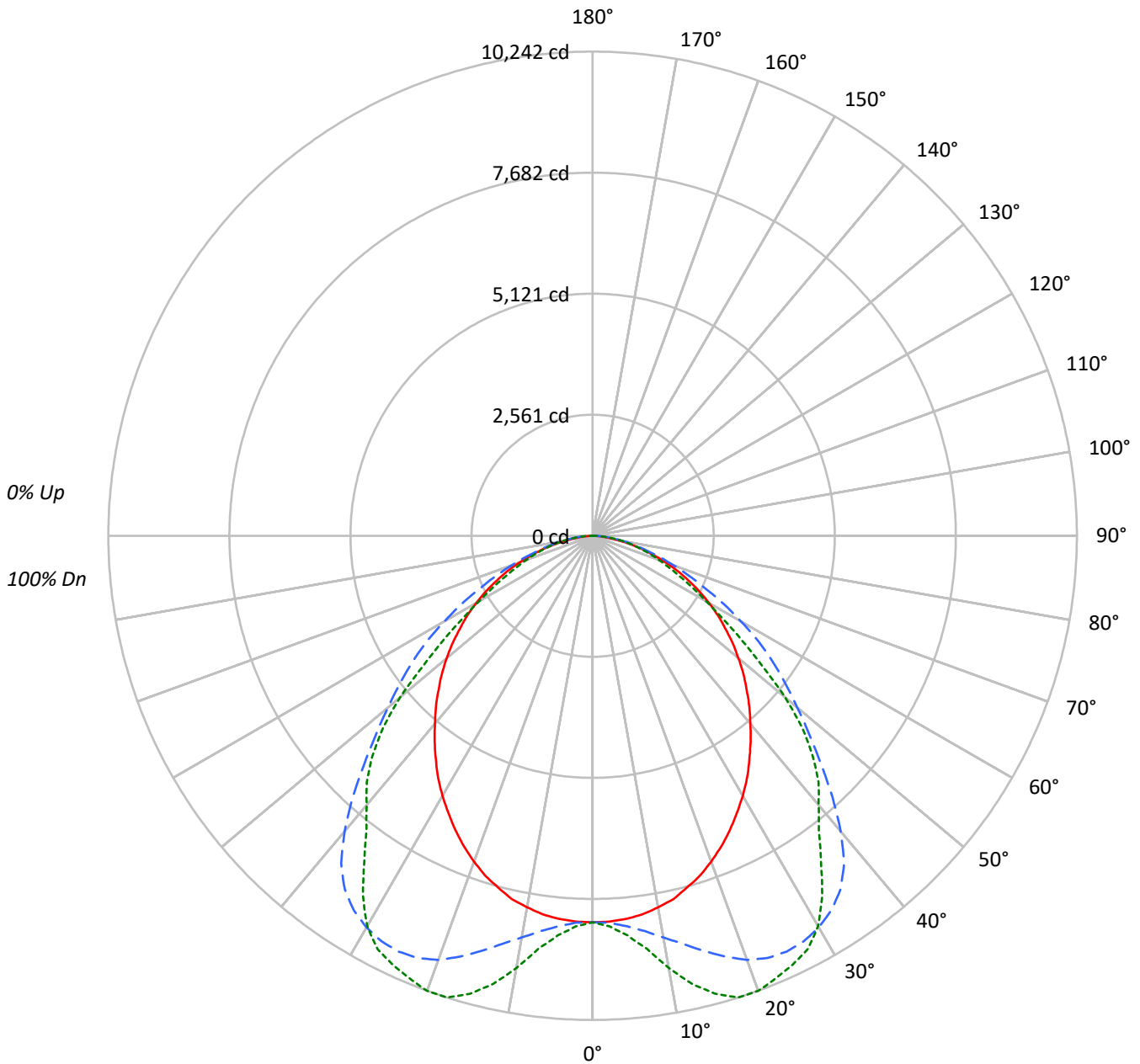
Lumens per Lamp: N/A
Luminaire Lumens: 25726.0 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.5 / 1.51
Luminous Opening: Rectangular (W 1' x L: 2.04' x H: 0')
CIE Type: Direct

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

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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°	43141	43141	43141
5°	43094	43907	44948
10°	42753	46224	49728
15°	42085	49666	54776
20°	41174	53615	57512
25°	39986	56508	58266
30°	38684	58276	58108
35°	37233	58862	54221
40°	35732	56203	51212
45°	34380	50945	49135
50°	33041	46322	43558
55°	31529	42799	35446
60°	29970	38156	29192
65°	27907	32787	25312
70°	25389	27993	22894
75°	21803	23493	20990
80°	17040	20152	19468
85°	11527	17103	16049



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	802.7	3.1
10°-20°	2545.4	9.9
20°-30°	4165.8	16.2
30°-40°	5081.9	19.8
40°-50°	5033.1	19.6
50°-60°	4024.8	15.6
60°-70°	2510.8	9.8
70°-80°	1230.2	4.8
80°-90°	322.6	1.3
90°-100°	8.5	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°	7514.0	29.2
0°-40°	12595.9	49.0
0°-60°	21653.8	84.2
0°-90°	25717.5	100.0
90°-120°	8.5	0.0
90°-150°	8.5	0.0
90°-180°	8.0	0.0
0°-180°	25726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8176	8176	8176	8176	8176	
5°	8136	8172	8290	8434	8486	772
15°	7704	8153	9092	9816	10028	2172
25°	6868	8031	9706	9988	10008	3161
35°	5780	7724	9138	8650	8418	3616
45°	4607	7158	6827	6598	6585	3559
55°	3427	5496	4652	4203	3853	3071
65°	2235	3084	2626	2178	2027	2216
75°	1070	1310	1152	1055	1030	1135
85°	190	270	282	268	265	236
90°	1	28	50	64	66	11
95°	1	4	4	3	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°	8176.1	8176.1	8176.1	8176.1	8176.1
2.5°	8167.9	8164.8	8194.5	8248.8	8273.3
5°	8136.2	8172.0	8289.7	8434.0	8486.2
7.5°	8078.9	8175.1	8435.0	8700.1	8812.7
10°	7979.6	8177.1	8627.4	9095.1	9281.4
12.5°	7877.3	8170.0	8841.3	9503.5	9707.1
15°	7704.3	8152.6	9092.1	9815.6	10027.5
17.5°	7543.6	8132.1	9333.6	10080.7	10241.4
20°	7332.8	8102.4	9548.5	10161.5	10242.4
22.5°	7111.7	8078.9	9667.2	10107.3	10131.9
25°	6868.2	8030.8	9706.1	9987.6	10008.0
27.5°	6608.2	7987.8	9669.3	9839.2	9856.6
30°	6349.3	7910.0	9564.9	9607.9	9537.3
32.5°	6078.1	7832.2	9396.0	9202.6	9037.8
35°	5780.3	7723.8	9138.1	8649.9	8417.6
37.5°	5486.6	7619.4	8735.9	8031.8	7856.8
40°	5187.7	7490.4	8159.7	7454.6	7435.1
42.5°	4905.3	7351.2	7507.8	7005.3	7070.8
45°	4607.4	7157.8	6827.2	6598.0	6584.7
47.5°	4325.0	6890.7	6208.1	6147.7	6011.6
50°	4025.1	6522.3	5643.1	5585.8	5306.4
52.5°	3731.4	6052.5	5138.6	4923.7	4516.4
55°	3427.4	5495.8	4652.5	4203.2	3853.2
57.5°	3145.0	4883.8	4158.2	3575.8	3261.6
60°	2840.0	4263.6	3615.7	3025.2	2766.3
62.5°	2541.2	3652.6	3124.5	2556.5	2384.6
65°	2235.2	3083.6	2626.1	2177.8	2027.4
67.5°	1942.5	2591.3	2195.2	1836.0	1735.7
70°	1645.7	2102.1	1814.5	1542.3	1484.0
72.5°	1339.7	1679.4	1467.6	1301.8	1257.8
75°	1069.5	1310.0	1152.4	1055.1	1029.6
77.5°	796.2	974.3	900.6	843.3	836.1
80°	560.8	703.1	663.2	651.9	640.7
82.5°	358.2	459.5	471.8	464.6	456.4
85°	190.4	270.2	282.5	268.1	265.1
87.5°	76.8	117.7	126.9	140.2	144.3
90°	1.0	27.6	50.1	63.5	65.5
92.5°	1.0	6.1	7.2	7.2	6.1
95°	1.0	4.1	4.1	3.1	2.0
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)