

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: P860095

Luminaire Tested: **SPHB-30SE-W-L940-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: P860095  
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-L940-CD  
Description: 30000 Lumen Standard Efficacy Select Pro High Bay with Wide Lens and, 4000K 90CRI LEDs  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

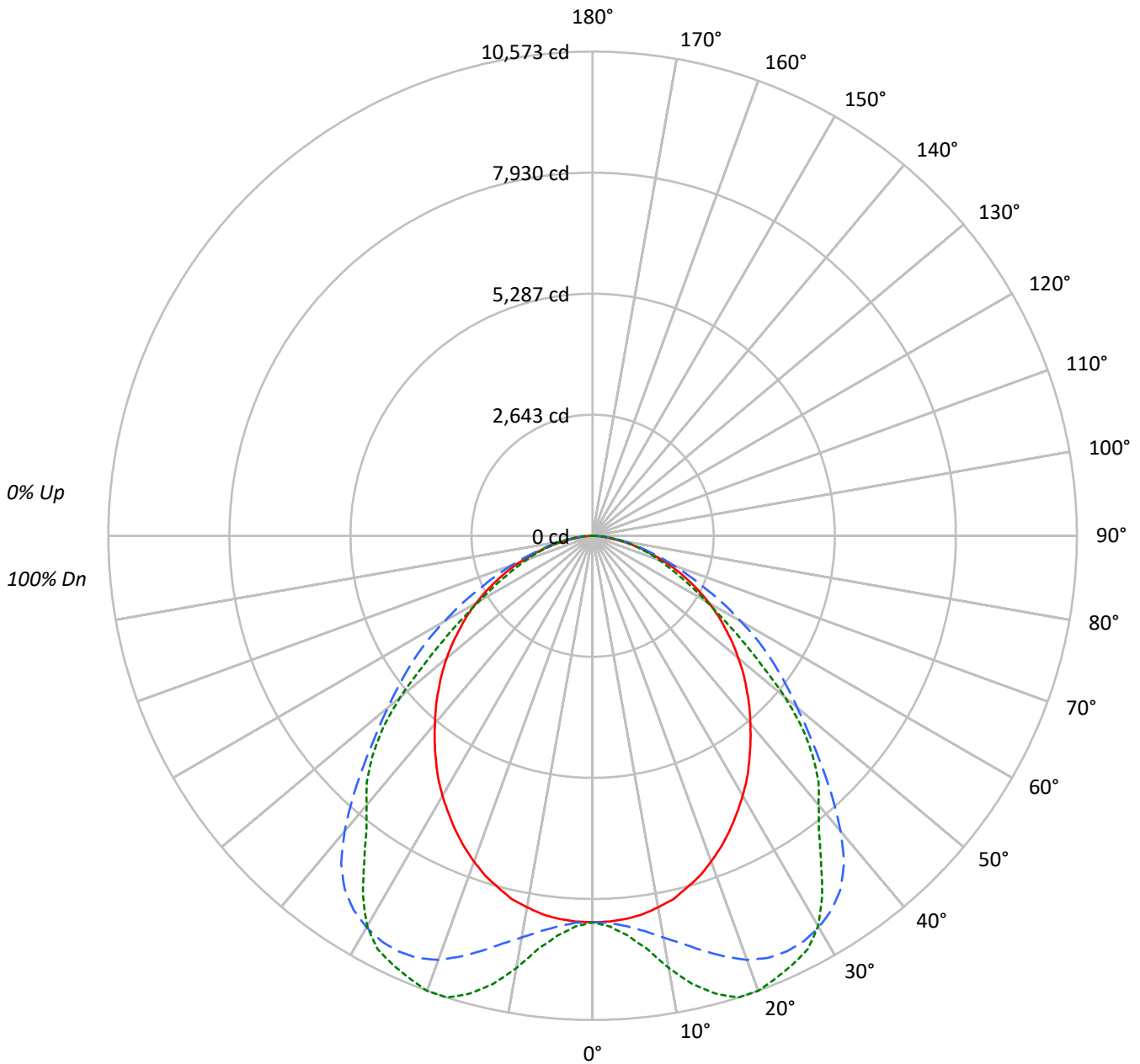
Lumens per Lamp: N/A  
Luminaire Lumens: 26556.0 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.5 / 1.51  
Luminous Opening: Rectangular (W 1' x L: 2.04' x H: 0')  
CIE Type: Direct

Input Watts (W): 195  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	44533	44533	44533
5°	44484	45324	46398
10°	44133	47716	51332
15°	43443	51268	56543
20°	42503	55345	59367
25°	41276	58331	60145
30°	39932	60156	59983
35°	38434	60760	55970
40°	36885	58017	52865
45°	35490	52588	50720
50°	34107	47817	44964
55°	32547	44180	36590
60°	30937	39387	30135
65°	28807	33845	26129
70°	26208	28897	23631
75°	22507	24252	21667
80°	17590	20802	20094
85°	11896	17654	16564



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	828.6	3.1
10°-20°	2627.6	9.9
20°-30°	4300.2	16.2
30°-40°	5245.9	19.8
40°-50°	5195.5	19.6
50°-60°	4154.7	15.6
60°-70°	2591.9	9.8
70°-80°	1269.9	4.8
80°-90°	333.1	1.3
90°-100°	8.8	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°	7756.4	29.2
0°-40°	13002.3	49.0
0°-60°	22352.4	84.2
0°-90°	26547.2	100.0
90°-120°	8.8	0.0
90°-150°	8.8	0.0
90°-180°	9.0	0.0
0°-180°	26556.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8440	8440	8440	8440	8440	
5°	8399	8436	8557	8706	8760	797
15°	7953	8416	9385	10132	10351	2242
25°	7090	8290	10019	10310	10331	3263
35°	5967	7973	9433	8929	8689	3732
45°	4756	7389	7048	6811	6797	3674
55°	3538	5673	4803	4339	3978	3170
65°	2307	3183	2711	2248	2093	2288
75°	1104	1352	1190	1089	1063	1172
85°	196	279	292	277	274	243
90°	1	28	52	66	68	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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CATALOG NUMBER: SPHB-30SE-W-L940-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8439.9	8439.9	8439.9	8439.9	8439.9
2.5°	8431.4	8428.3	8458.9	8514.9	8540.3
5°	8398.7	8435.7	8557.2	8706.1	8760.0
7.5°	8339.5	8438.8	8707.2	8980.8	9097.0
10°	8237.1	8440.9	8905.8	9388.6	9580.8
12.5°	8131.4	8433.6	9126.6	9810.1	10020.3
15°	7952.9	8415.6	9385.4	10132.3	10351.0
17.5°	7787.0	8394.5	9634.7	10405.9	10571.8
20°	7569.4	8363.8	9856.6	10489.4	10572.8
22.5°	7341.2	8339.5	9979.1	10433.4	10458.7
25°	7089.8	8289.9	10019.3	10309.8	10330.9
27.5°	6821.4	8245.5	9981.2	10156.6	10174.6
30°	6554.1	8165.2	9873.5	9917.9	9845.0
32.5°	6274.2	8084.9	9699.2	9499.5	9329.4
35°	5966.8	7972.9	9432.9	8929.0	8689.2
37.5°	5663.6	7865.2	9017.8	8290.9	8110.3
40°	5355.1	7732.1	8423.0	7695.1	7675.0
42.5°	5063.5	7588.4	7750.0	7231.3	7298.9
45°	4756.1	7388.7	7047.5	6810.9	6797.1
47.5°	4464.5	7113.0	6408.4	6346.0	6205.5
50°	4155.0	6732.7	5825.2	5766.0	5477.6
52.5°	3851.8	6247.8	5304.4	5082.5	4662.1
55°	3538.0	5673.1	4802.6	4338.8	3977.5
57.5°	3246.4	5041.3	4292.3	3691.2	3366.9
60°	2931.6	4401.1	3732.4	3122.8	2855.6
62.5°	2623.1	3770.4	3225.3	2639.0	2461.5
65°	2307.3	3183.1	2710.8	2248.1	2092.8
67.5°	2005.1	2674.9	2266.1	1895.3	1791.7
70°	1698.8	2169.9	1873.1	1592.1	1531.8
72.5°	1382.9	1733.6	1514.9	1343.8	1298.4
75°	1104.0	1352.2	1189.6	1089.2	1062.8
77.5°	821.9	1005.7	929.7	870.5	863.1
80°	578.9	725.8	684.6	673.0	661.3
82.5°	369.8	474.3	487.0	479.6	471.2
85°	196.5	278.9	291.6	276.8	273.6
87.5°	79.2	121.5	131.0	144.7	149.0
90°	1.1	28.5	51.8	65.5	67.6
92.5°	1.1	6.3	7.4	7.4	6.3
95°	1.1	4.2	4.2	3.2	2.1
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)