

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: P860089

Luminaire Tested: **SPHB-30SE-W-L740-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: P860089  
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-L740-CD  
Description: 30000 Lumen Standard Efficacy Select Pro High Bay with Wide Lens and, 4000K 70CRI LEDs  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

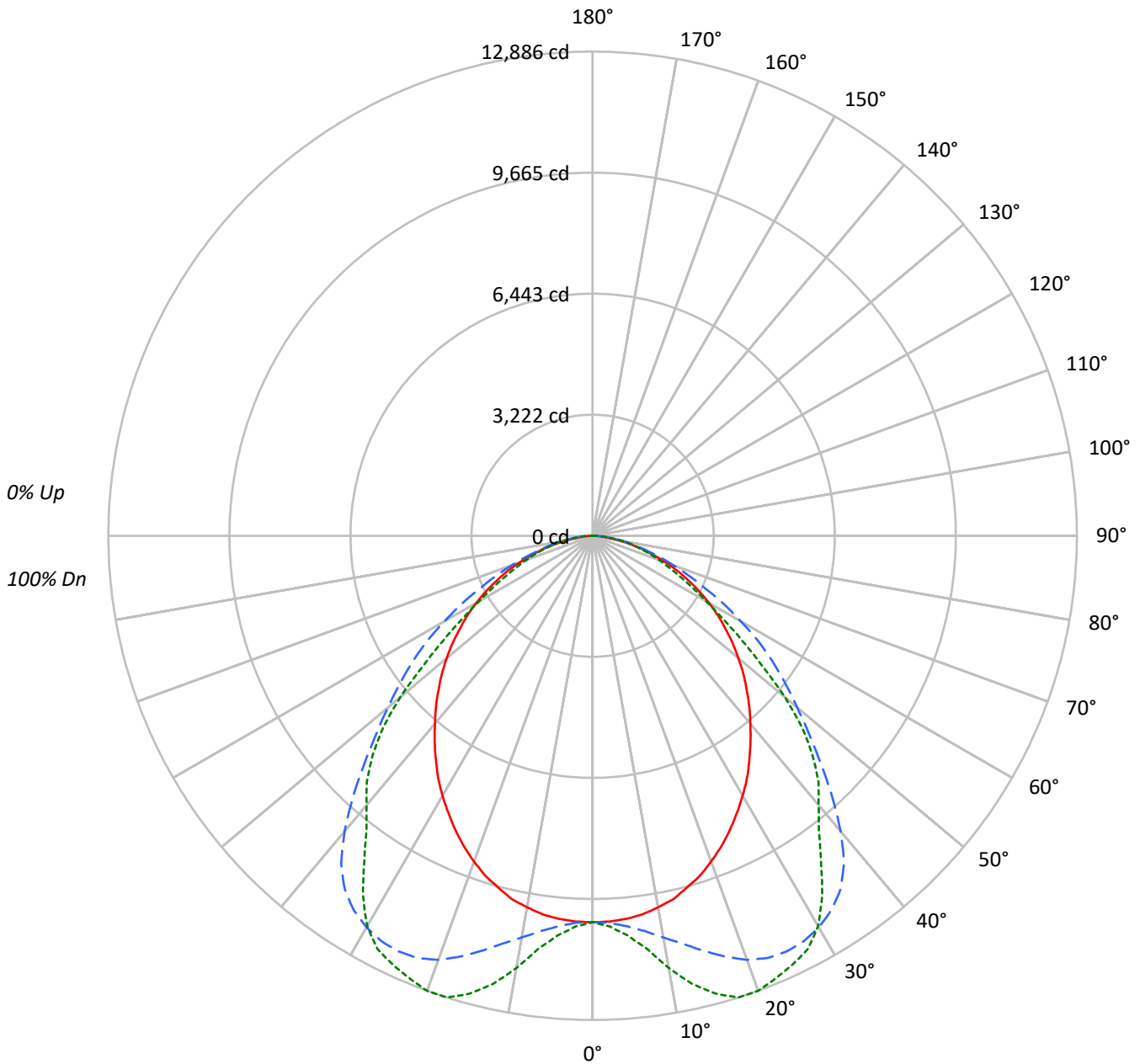
Lumens per Lamp: N/A  
Luminaire Lumens: 32365.0 lumens  
Efficiency: N/A  
Efficacy: 166.0 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.5 / 1.51  
Luminous Opening: Rectangular (W 1' x L: 2.04' x H: 0')  
CIE Type: Direct

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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CATALOG NUMBER: SPHB-30SE-W-L740-CD

### Luminous Intensity Polar Plot





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**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°	54274	54274	54274
5°	54215	55238	56547
10°	53787	58153	62561
15°	52946	62483	68911
20°	51800	67452	72353
25°	50305	71091	73302
30°	48667	73315	73103
35°	46841	74052	68213
40°	44954	70708	64429
45°	43253	64092	61815
50°	41568	58277	54799
55°	39666	53844	44594
60°	37704	48003	36726
65°	35108	41248	31844
70°	31939	35217	28801
75°	27430	29556	26407
80°	21440	25351	24491
85°	14499	21516	20190



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1009.9	3.1
10°-20°	3202.3	9.9
20°-30°	5240.8	16.2
30°-40°	6393.4	19.8
40°-50°	6332.0	19.6
50°-60°	5063.5	15.6
60°-70°	3158.8	9.8
70°-80°	1547.6	4.8
80°-90°	405.9	1.3
90°-100°	10.7	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°	9453.1	29.2
0°-40°	15846.5	49.0
0°-60°	27241.9	84.2
0°-90°	32354.3	100.0
90°-120°	10.7	0.0
90°-150°	10.7	0.0
90°-180°	11.0	0.0
0°-180°	32365.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10286	10286	10286	10286	10286	
5°	10236	10281	10429	10610	10676	971
15°	9692	10256	11438	12349	12615	2732
25°	8641	10103	12211	12565	12591	3976
35°	7272	9717	11496	10882	10590	4549
45°	5796	9005	8589	8301	8284	4477
55°	4312	6914	5853	5288	4848	3863
65°	2812	3879	3304	2740	2551	2788
75°	1346	1648	1450	1327	1295	1428
85°	240	340	355	337	334	297
90°	1	35	63	80	82	14
95°	1	5	5	4	3	1
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: P860089

CATALOG NUMBER: SPHB-30SE-W-L740-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10286.1	10286.1	10286.1	10286.1	10286.1
2.5°	10275.8	10271.9	10309.3	10377.5	10408.4
5°	10235.9	10280.9	10429.0	10610.5	10676.2
7.5°	10163.8	10284.8	10611.8	10945.3	11086.9
10°	10038.9	10287.4	10853.9	11442.3	11676.6
12.5°	9910.1	10278.4	11123.0	11956.0	12212.2
15°	9692.5	10256.5	11438.4	12348.7	12615.2
17.5°	9490.4	10230.7	11742.3	12682.2	12884.3
20°	9225.2	10193.4	12012.7	12783.9	12885.6
22.5°	8947.0	10163.8	12162.0	12715.6	12746.5
25°	8640.6	10103.3	12210.9	12565.0	12590.8
27.5°	8313.6	10049.2	12164.6	12378.3	12400.2
30°	7987.8	9951.3	12033.3	12087.3	11998.5
32.5°	7646.6	9853.5	11820.8	11577.5	11370.2
35°	7272.0	9717.0	11496.4	10882.2	10589.9
37.5°	6902.4	9585.7	10990.4	10104.5	9884.4
40°	6526.5	9423.4	10265.5	9378.4	9353.9
42.5°	6171.1	9248.3	9445.3	8813.1	8895.5
45°	5796.5	9005.0	8589.1	8300.7	8284.0
47.5°	5441.1	8668.9	7810.2	7734.2	7563.0
50°	5063.9	8205.4	7099.4	7027.3	6675.8
52.5°	4694.3	7614.5	6464.7	6194.3	5681.9
55°	4311.9	6914.0	5853.1	5287.9	4847.6
57.5°	3956.6	6144.1	5231.2	4498.6	4103.4
60°	3572.9	5363.9	4548.8	3805.9	3480.2
62.5°	3196.9	4595.2	3930.8	3216.3	2999.9
65°	2812.0	3879.3	3303.8	2739.9	2550.6
67.5°	2443.7	3260.0	2761.8	2309.8	2183.7
70°	2070.3	2644.6	2282.8	1940.3	1866.9
72.5°	1685.4	2112.8	1846.3	1637.7	1582.4
75°	1345.5	1648.0	1449.8	1327.4	1295.3
77.5°	1001.7	1225.7	1133.0	1060.9	1051.9
80°	705.6	884.5	834.3	820.2	806.0
82.5°	450.6	578.1	593.6	584.5	574.2
85°	239.5	339.9	355.4	337.3	333.5
87.5°	96.6	148.1	159.7	176.4	181.5
90°	1.3	34.8	63.1	79.8	82.4
92.5°	1.3	7.7	9.0	9.0	7.7
95°	1.3	5.2	5.2	3.9	2.6
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)