

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: P860148

Luminaire Tested: **SPHB-36SE-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: P860148
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-36SE-W-L935-CD
Description: 36000 Lumen Standard Efficacy Select Pro High Bay with Wide Lens
and, 3500K 90CRI LEDs
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

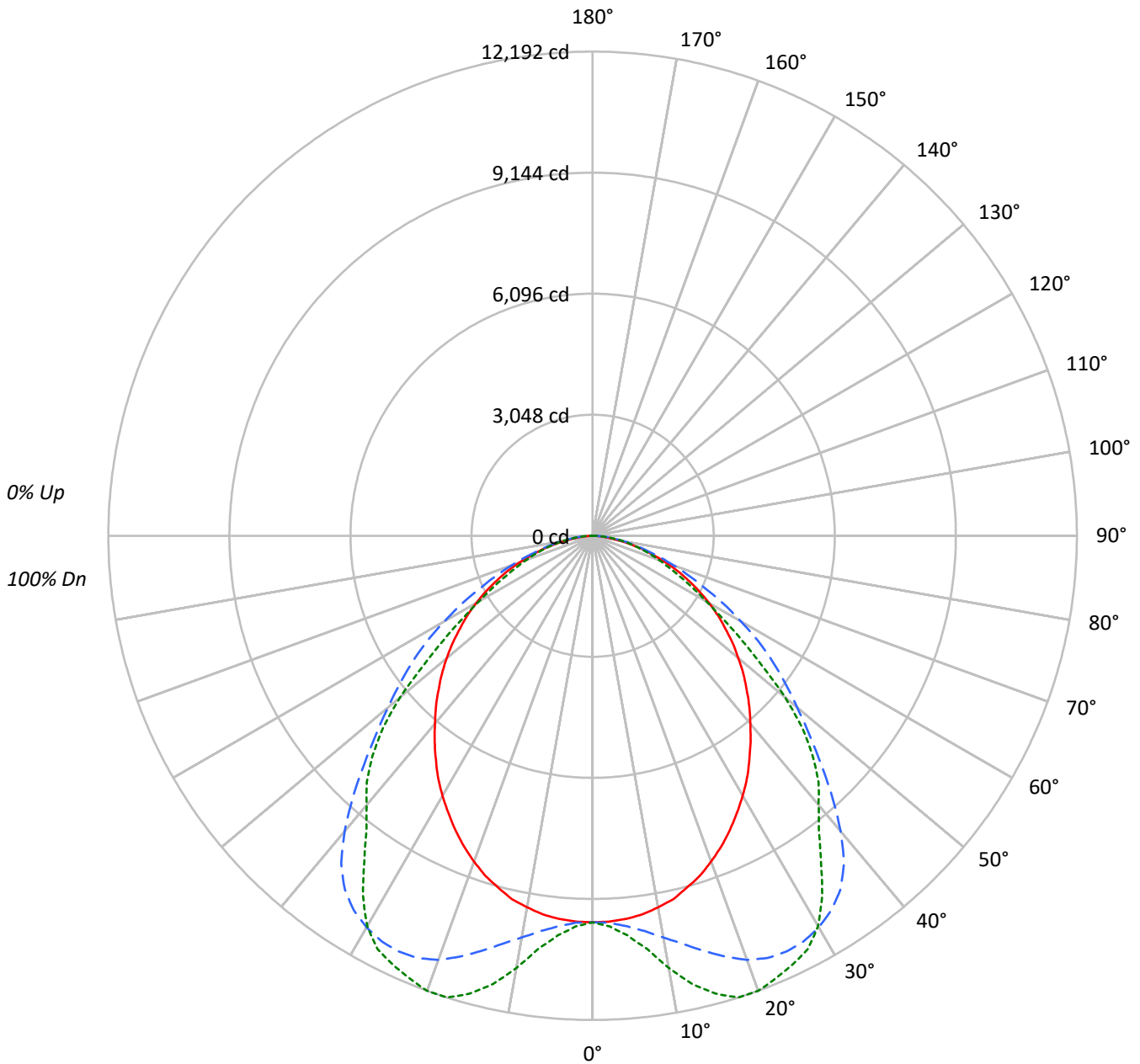
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30623.0 lumens
Efficiency: N/A
Efficacy: 127.2 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): 240.8
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

TEST NUMBER: P860148
CATALOG NUMBER: SPHB-36SE-W-L935-CD

Luminous Intensity Polar Plot





TEST NUMBER: P860148

CATALOG NUMBER: SPHB-36SE-W-L935-CD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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				100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72				72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62				62
4	84	73	64	58	82	71	63	57	69	62	57	66	61	56	64	59	55	53				53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36				36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32				32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29				29
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	51352	51352	51352
5°	51297	52265	53504
10°	50891	55023	59194
15°	50096	59120	65202
20°	49012	63821	68459
25°	47597	67264	69357
30°	46048	69369	69169
35°	44320	70066	64541
40°	42534	66902	60961
45°	40925	60642	58488
50°	39330	55140	51850
55°	37532	50946	42193
60°	35675	45420	34750
65°	33218	39028	30130
70°	30220	33321	27251
75°	25954	27964	24984
80°	20286	23987	23172
85°	13718	20354	19100



TEST NUMBER: P860148

CATALOG NUMBER: SPHB-36SE-W-L935-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	955.6	3.1
10°-20°	3030.0	9.9
20°-30°	4958.7	16.2
30°-40°	6049.3	19.8
40°-50°	5991.2	19.6
50°-60°	4791.0	15.6
60°-70°	2988.8	9.8
70°-80°	1464.3	4.8
80°-90°	384.1	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°	8944.3	29.2
0°-40°	14993.5	49.0
0°-60°	25775.7	84.2
0°-90°	30612.9	100.0
90°-120°	10.1	0.0
90°-150°	10.1	0.0
90°-180°	10.0	0.0
0°-180°	30623.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9732	9732	9732	9732	9732	
5°	9685	9728	9868	10039	10102	919
15°	9171	9704	10823	11684	11936	2585
25°	8176	9560	11554	11889	11913	3762
35°	6881	9194	10878	10296	10020	4304
45°	5484	8520	8127	7854	7838	4236
55°	4080	6542	5538	5003	4587	3655
65°	2661	3670	3126	2592	2413	2638
75°	1273	1559	1372	1256	1226	1351
85°	227	322	336	319	316	281
90°	1	33	60	76	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



TEST NUMBER: P860148

CATALOG NUMBER: SPHB-36SE-W-L935-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9732.4	9732.4	9732.4	9732.4	9732.4
2.5°	9722.7	9719.0	9754.4	9818.9	9848.2
5°	9684.9	9727.6	9867.7	10039.4	10101.6
7.5°	9616.7	9731.2	10040.7	10356.2	10490.2
10°	9498.5	9733.7	10269.7	10826.4	11048.1
12.5°	9376.7	9725.1	10524.3	11312.5	11554.9
15°	9170.8	9704.4	10822.8	11684.1	11936.2
17.5°	8979.6	9680.1	11110.3	11999.6	12190.8
20°	8728.6	9644.7	11366.1	12095.8	12192.1
22.5°	8465.5	9616.7	11507.4	12031.2	12060.5
25°	8175.5	9559.5	11553.7	11888.7	11913.1
27.5°	7866.1	9508.3	11509.8	11712.1	11732.8
30°	7557.9	9415.7	11385.6	11436.8	11352.7
32.5°	7235.1	9323.1	11184.6	10954.3	10758.2
35°	6880.6	9194.0	10877.6	10296.5	10019.9
37.5°	6530.9	9069.7	10398.8	9560.7	9352.4
40°	6175.2	8916.2	9713.0	8873.6	8850.4
42.5°	5839.0	8750.6	8936.9	8338.8	8416.8
45°	5484.5	8520.3	8126.8	7853.9	7838.1
47.5°	5148.2	8202.3	7389.8	7317.9	7155.9
50°	4791.3	7763.8	6717.3	6649.1	6316.5
52.5°	4441.7	7204.6	6116.7	5860.9	5376.1
55°	4079.9	6541.9	5538.1	5003.3	4586.6
57.5°	3743.6	5813.4	4949.7	4256.5	3882.5
60°	3380.6	5075.1	4304.0	3601.1	3292.9
62.5°	3024.9	4347.9	3719.3	3043.1	2838.5
65°	2660.6	3670.5	3126.0	2592.4	2413.3
67.5°	2312.2	3084.6	2613.1	2185.5	2066.1
70°	1958.9	2502.2	2159.9	1835.9	1766.4
72.5°	1594.7	1999.1	1746.9	1549.6	1497.2
75°	1273.1	1559.3	1371.7	1256.0	1225.5
77.5°	947.8	1159.8	1072.0	1003.8	995.3
80°	667.6	836.9	789.4	776.0	762.6
82.5°	426.4	547.0	561.6	553.1	543.3
85°	226.6	321.6	336.2	319.2	315.5
87.5°	91.4	140.1	151.1	166.9	171.8
90°	1.2	32.9	59.7	75.5	78.0
92.5°	1.2	7.3	8.5	8.5	7.3
95°	1.2	4.9	4.9	3.7	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



TEST NUMBER: P860148

CATALOG NUMBER: SPHB-36SE-W-L935-CD

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)