

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: P860130

Luminaire Tested: **SPHB-36SE-M-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: P860130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-343-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SPHB-36SE-M-L935-CD
Description: 36000 Lumen Standard Efficacy Select Pro High Bay with Medium Lens and, 3500K 90CRI LEDs
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

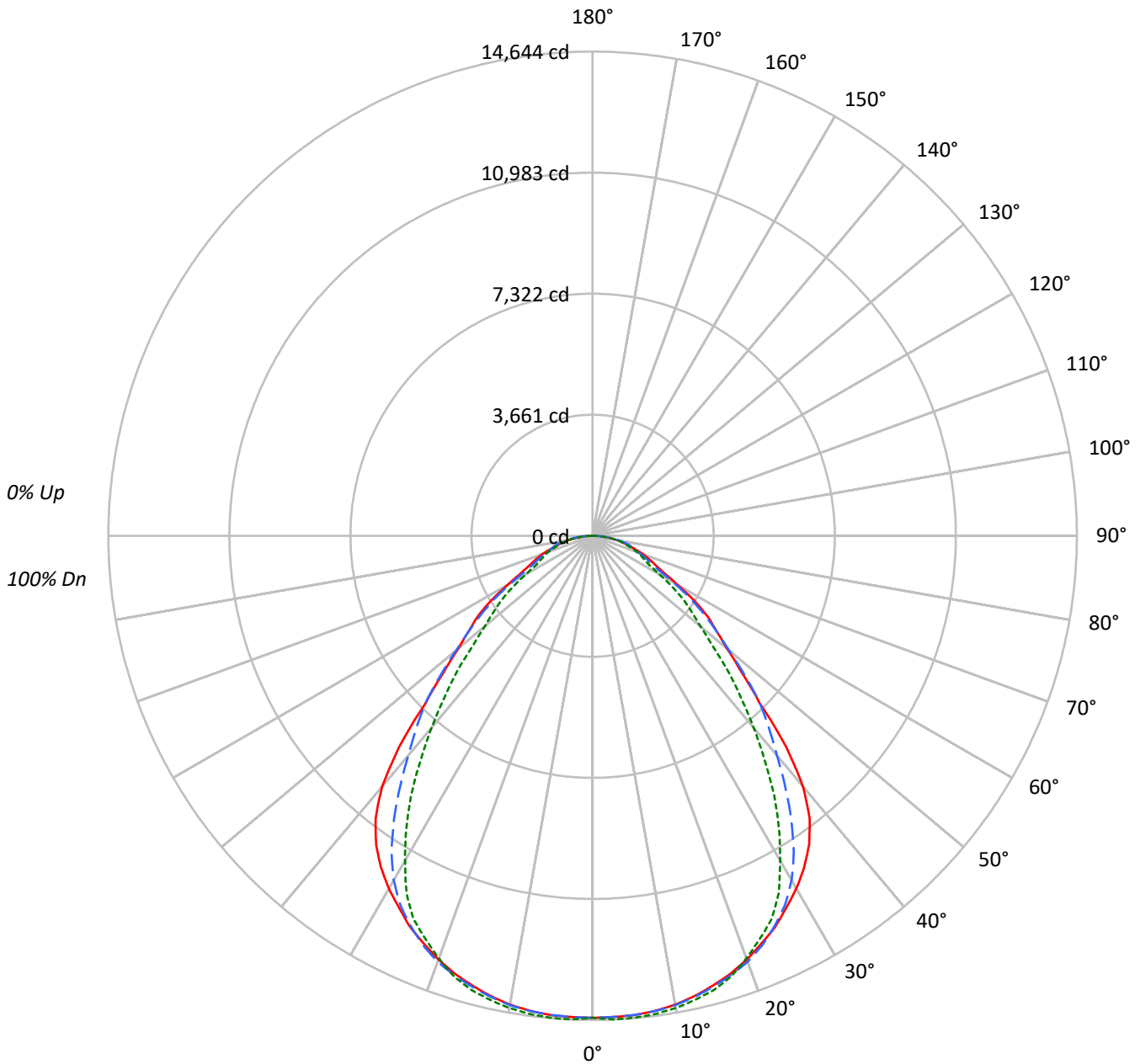
Lumens per Lamp: N/A
Luminaire Lumens: 30260.0 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.16 / 1.22
Luminous Opening: Rectangular (W 1' x L: 2.04' x H: 0')
CIE Type: Direct

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: P860130

CATALOG NUMBER: SPHB-36SE-M-L935-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	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87								
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75								
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	69	63	85	75	68	62	73	66	61	70	65	61	68	64	60	58								
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51								
6	75	63	55	49	73	62	54	49	60	54	48	59	53	48	57	52	48	46								
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41								
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37								
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	45	38	33	57	45	38	33	44	37	33	43	37	33	42	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	76923	76923	76923
5°	77075	77054	77492
10°	77142	77224	77698
15°	76917	77116	77652
20°	76580	76970	76354
25°	76021	75808	74521
30°	75058	73290	69107
35°	73483	67426	61593
40°	68194	59678	52168
45°	53203	53346	43173
50°	43453	44068	34866
55°	38932	37464	30636
60°	31167	29504	24511
65°	26119	23910	21678
70°	24799	22781	22070
75°	22501	24187	21286
80°	22610	24713	22437
85°	19676	23048	18743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1386.2	4.6
10°-20°	3986.6	13.2
20°-30°	5951.4	19.7
30°-40°	6494.0	21.5
40°-50°	5312.4	17.6
50°-60°	3492.9	11.5
60°-70°	2003.9	6.6
70°-80°	1214.3	4.0
80°-90°	407.8	1.3
90°-100°	10.6	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°	11324.2	37.4
0°-40°	17818.1	58.9
0°-60°	26623.4	88.0
0°-90°	30249.4	100.0
90°-120°	10.6	0.0
90°-150°	10.6	0.0
90°-180°	11.0	0.0
0°-180°	30260.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14579	14579	14579	14579	14579	
5°	14552	14529	14548	14608	14631	###
15°	14081	14079	14117	14208	14215	3974
25°	13058	13088	13021	12864	12800	6007
35°	11408	11150	10468	9754	9562	7070
45°	7130	7662	7149	6311	5786	5659
55°	4232	4117	4072	3500	3330	3727
65°	2092	2061	1915	1863	1736	2139
75°	1104	1194	1186	1138	1044	1195
85°	325	369	381	333	310	352
90°	2	27	54	64	67	15
95°	2	4	6	6	4	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: P860130

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14578.7	14578.7	14578.7	14578.7	14578.7
2.5°	14569.1	14547.9	14567.2	14626.8	14644.1
5°	14551.8	14528.7	14547.9	14607.5	14630.6
7.5°	14492.2	14478.7	14497.9	14557.5	14586.4
10°	14398.0	14382.6	14413.3	14465.2	14501.8
12.5°	14257.6	14251.8	14280.7	14355.6	14371.0
15°	14080.7	14078.8	14117.2	14207.6	14215.3
17.5°	13880.7	13878.8	13926.9	13986.5	13965.3
20°	13638.4	13651.9	13707.7	13651.9	13598.1
22.5°	13348.1	13390.4	13403.9	13228.9	13202.0
25°	13057.8	13088.5	13021.2	12863.6	12800.1
27.5°	12682.8	12719.3	12594.4	12369.4	12188.7
30°	12319.4	12284.8	12029.1	11594.5	11342.6
32.5°	11902.2	11779.1	11319.5	10719.6	10490.8
35°	11408.0	11150.3	10467.7	9754.4	9562.1
37.5°	10783.1	10312.0	9565.9	8821.8	8531.5
40°	9900.5	9356.4	8664.2	7895.0	7573.9
42.5°	8664.2	8462.3	7889.3	7024.0	6641.4
45°	7129.8	7662.4	7149.0	6310.6	5785.7
47.5°	6103.0	6843.3	6226.0	5620.4	4897.4
50°	5293.5	5803.0	5368.5	4822.4	4247.5
52.5°	4708.9	4862.8	4687.8	4087.9	3761.0
55°	4232.1	4116.7	4072.5	3499.5	3330.3
57.5°	3639.9	3576.4	3463.0	3051.5	2828.4
60°	2953.4	3088.0	2795.8	2678.5	2322.7
62.5°	2426.6	2559.3	2245.8	2238.1	1942.0
65°	2092.0	2061.2	1915.1	1863.2	1736.3
67.5°	1851.7	1755.5	1705.5	1638.2	1594.0
70°	1607.5	1567.1	1476.7	1490.2	1430.6
72.5°	1340.2	1392.1	1301.7	1326.7	1219.1
75°	1103.7	1194.1	1186.4	1138.3	1044.1
77.5°	909.5	1005.6	1022.9	978.7	901.8
80°	744.1	809.5	813.3	786.4	738.4
82.5°	546.1	584.5	613.4	567.2	536.5
85°	325.0	369.2	380.7	332.6	309.6
87.5°	105.8	148.1	165.4	171.1	173.1
90°	1.9	26.9	53.8	63.5	67.3
92.5°	1.9	7.7	11.5	17.3	19.2
95°	1.9	3.8	5.8	5.8	3.8
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: P860130

CATALOG NUMBER: SPHB-36SE-M-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)