

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: P860124

Luminaire Tested: **SPHB-36SE-M-L735-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: P860124
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-L735-CD
Description: 36000 Lumen Standard Efficacy Select Pro High Bay with Medium Lens
and, 3500K 70CRI LEDs
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

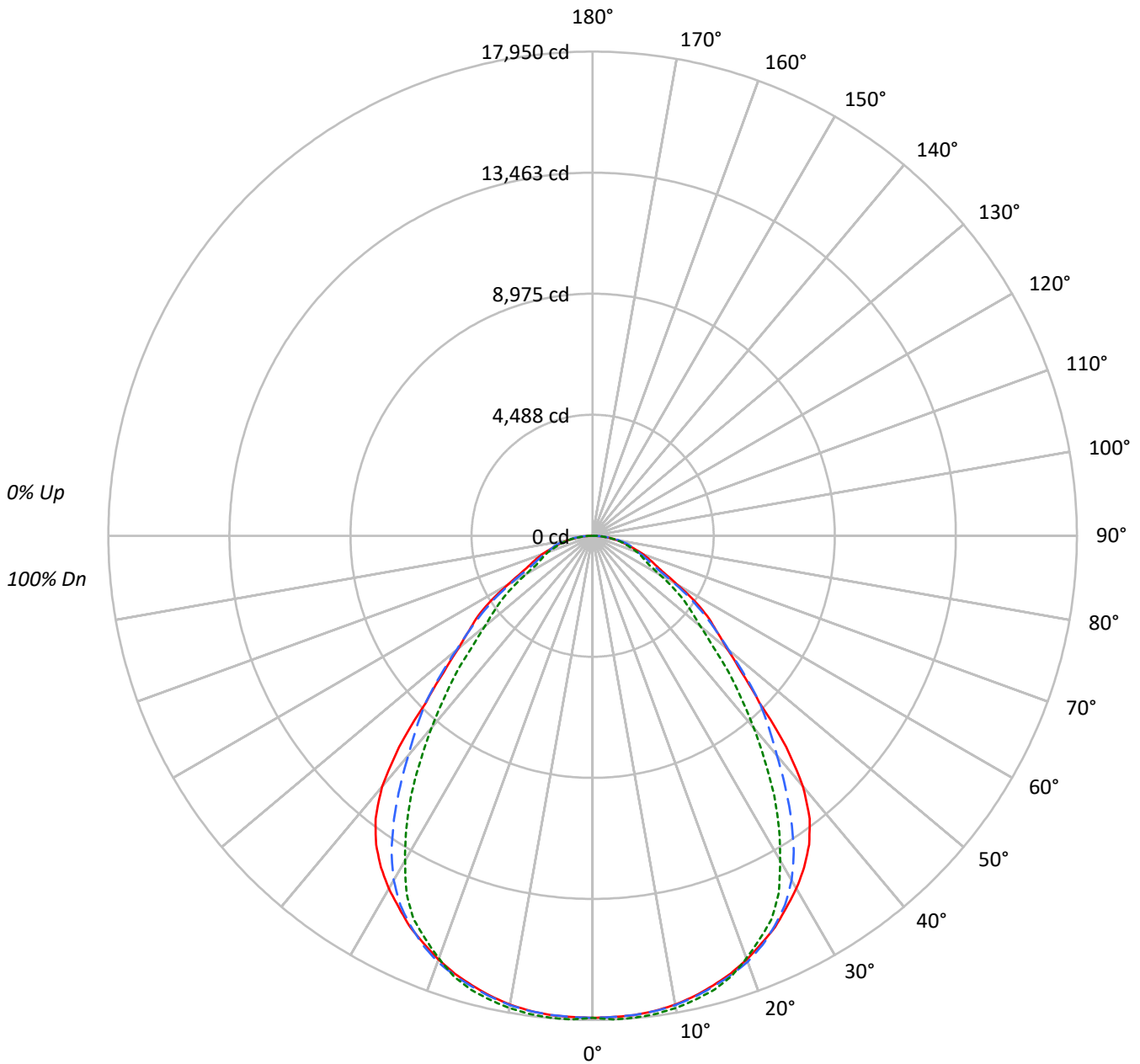
Lumens per Lamp: N/A
Luminaire Lumens: 37092.0 lumens
Efficiency: N/A
Efficacy: 154.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.16 / 1.22
Luminous Opening: Rectangular (W 1' x L: 2.04' x H: 0')
CIE Type: Direct

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: P860124

CATALOG NUMBER: SPHB-36SE-M-L735-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°	94291	94291	94291
5°	94476	94451	94988
10°	94559	94659	95240
15°	94283	94527	95184
20°	93871	94347	93593
25°	93185	92924	91346
30°	92005	89836	84710
35°	90073	82649	75499
40°	83590	73151	63946
45°	65214	65390	52920
50°	53263	54017	42738
55°	47722	45922	37553
60°	38203	36165	30046
65°	32016	29309	26572
70°	30398	27925	27053
75°	27581	29646	26091
80°	27715	30295	27502
85°	24113	28254	22975



TEST NUMBER: P860124

CATALOG NUMBER: SPHB-36SE-M-L735-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1699.1	4.6
10°-20°	4886.7	13.2
20°-30°	7295.1	19.7
30°-40°	7960.1	21.5
40°-50°	6511.8	17.6
50°-60°	4281.5	11.5
60°-70°	2456.4	6.6
70°-80°	1488.5	4.0
80°-90°	499.8	1.3
90°-100°	13.0	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°	13880.9	37.4
0°-40°	21841.1	58.9
0°-60°	32634.3	88.0
0°-90°	37079.0	100.0
90°-120°	13.0	0.0
90°-150°	13.0	0.0
90°-180°	13.0	0.0
0°-180°	37092.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17870	17870	17870	17870	17870	
5°	17837	17809	17832	17906	17934	###
15°	17260	17257	17305	17415	17425	4872
25°	16006	16044	15961	15768	15690	7363
35°	13984	13668	12831	11957	11721	8667
45°	8740	9392	8763	7735	7092	6937
55°	5188	5046	4992	4290	4082	4569
65°	2564	2527	2348	2284	2128	2621
75°	1353	1464	1454	1395	1280	1464
85°	398	452	467	408	380	432
90°	2	33	66	78	82	19
95°	2	5	7	7	5	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: P860124

CATALOG NUMBER: SPHB-36SE-M-L735-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17870.2	17870.2	17870.2	17870.2	17870.2
2.5°	17858.4	17832.5	17856.1	17929.1	17950.4
5°	17837.2	17808.9	17832.5	17905.6	17933.9
7.5°	17764.2	17747.7	17771.2	17844.3	17879.7
10°	17648.7	17629.8	17667.5	17731.2	17775.9
12.5°	17476.6	17469.5	17504.9	17596.8	17615.7
15°	17259.8	17257.4	17304.6	17415.3	17424.8
17.5°	17014.7	17012.3	17071.2	17144.3	17118.4
20°	16717.7	16734.2	16802.5	16734.2	16668.2
22.5°	16361.8	16413.6	16430.1	16215.7	16182.7
25°	16005.9	16043.6	15961.1	15767.8	15690.1
27.5°	15546.3	15591.1	15437.9	15162.1	14940.6
30°	15100.8	15058.4	14744.9	14212.3	13903.5
32.5°	14589.4	14438.5	13875.2	13139.9	12859.4
35°	13983.6	13667.8	12831.1	11956.7	11721.0
37.5°	13217.6	12640.2	11725.7	10813.6	10457.7
40°	12135.8	11468.8	10620.3	9677.5	9283.9
42.5°	10620.3	10372.8	9670.5	8609.9	8140.8
45°	8739.5	9392.4	8763.1	7735.4	7092.0
47.5°	7480.9	8388.3	7631.7	6889.3	6003.1
50°	6488.6	7113.2	6580.5	5911.2	5206.5
52.5°	5772.1	5960.7	5746.2	5010.8	4610.1
55°	5187.6	5046.2	4992.0	4289.6	4082.2
57.5°	4461.7	4383.9	4244.8	3740.4	3467.0
60°	3620.2	3785.2	3427.0	3283.2	2847.2
62.5°	2974.4	3137.1	2752.9	2743.5	2380.5
65°	2564.3	2526.6	2347.5	2283.9	2128.3
67.5°	2269.7	2151.9	2090.6	2008.1	1953.9
70°	1970.4	1920.9	1810.1	1826.6	1753.6
72.5°	1642.8	1706.4	1595.6	1626.3	1494.3
75°	1352.9	1463.7	1454.2	1395.3	1279.8
77.5°	1114.8	1232.7	1253.9	1199.7	1105.4
80°	912.1	992.3	997.0	964.0	905.1
82.5°	669.4	716.5	751.9	695.3	657.6
85°	398.3	452.5	466.7	407.7	379.5
87.5°	129.6	181.5	202.7	209.8	212.1
90°	2.4	33.0	66.0	77.8	82.5
92.5°	2.4	9.4	14.1	21.2	23.6
95°	2.4	4.7	7.1	7.1	4.7
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: P860124

CATALOG NUMBER: SPHB-36SE-M-L735-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)