

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: P860150

Luminaire Tested: **SPHB-36SE-W-L950-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: P860150
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-L950-CD
Description: 36000 Lumen Standard Efficacy Select Pro High Bay with Wide Lens and, 5000K 90CRI LEDs
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

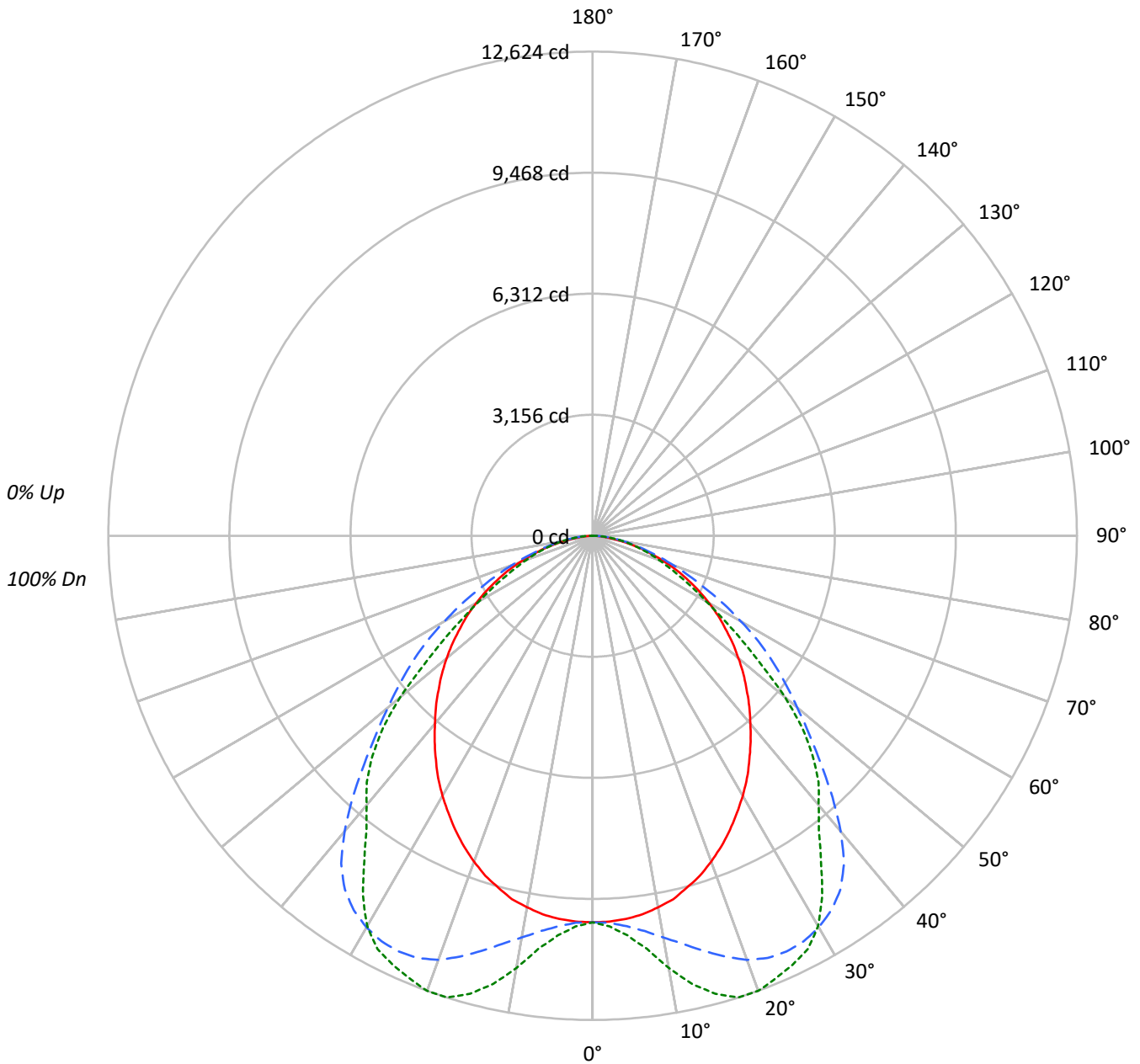
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31709.0 lumens
Efficiency: N/A
Efficacy: 131.7 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

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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°	53174	53174	53174
5°	53116	54118	55401
10°	52696	56975	61293
15°	51873	61217	67515
20°	50750	66085	70887
25°	49285	69650	71817
30°	47681	71829	71621
35°	45892	72551	66831
40°	44043	69274	63123
45°	42377	62793	60562
50°	40725	57095	53689
55°	38862	52753	43690
60°	36940	47030	35982
65°	34396	40412	31199
70°	31293	34503	28218
75°	26874	28957	25871
80°	21006	24837	23996
85°	14203	21080	19778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	989.4	3.1
10°-20°	3137.4	9.9
20°-30°	5134.6	16.2
30°-40°	6263.8	19.8
40°-50°	6203.6	19.6
50°-60°	4960.9	15.6
60°-70°	3094.8	9.8
70°-80°	1516.3	4.8
80°-90°	397.7	1.3
90°-100°	10.5	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°	9261.5	29.2
0°-40°	15525.3	49.0
0°-60°	26689.8	84.2
0°-90°	31698.5	100.0
90°-120°	10.5	0.0
90°-150°	10.5	0.0
90°-180°	10.0	0.0
0°-180°	31709.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10078	10078	10078	10078	10078	
5°	10028	10072	10218	10396	10460	951
15°	9496	10049	11207	12098	12360	2677
25°	8466	9898	11963	12310	12336	3896
35°	7125	9520	11263	10662	10375	4457
45°	5679	8822	8415	8132	8116	4386
55°	4224	6774	5734	5181	4749	3785
65°	2755	3801	3237	2684	2499	2732
75°	1318	1615	1420	1300	1269	1399
85°	235	333	348	330	327	291
90°	1	34	62	78	81	13
95°	1	5	5	4	2	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: P860150

CATALOG NUMBER: SPHB-36SE-W-L950-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10077.6	10077.6	10077.6	10077.6	10077.6
2.5°	10067.5	10063.7	10100.3	10167.2	10197.4
5°	10028.4	10072.5	10217.6	10395.5	10459.8
7.5°	9957.8	10076.3	10396.7	10723.4	10862.2
10°	9835.4	10078.9	10633.9	11210.4	11439.9
12.5°	9709.3	10070.0	10897.5	11713.7	11964.7
15°	9496.1	10048.6	11206.6	12098.4	12359.5
17.5°	9298.0	10023.4	11504.3	12425.1	12623.2
20°	9038.2	9986.8	11769.2	12524.8	12624.4
22.5°	8765.7	9957.8	11915.5	12457.9	12488.2
25°	8465.5	9898.5	11963.4	12310.3	12335.6
27.5°	8145.1	9845.5	11918.0	12127.4	12148.9
30°	7825.9	9749.6	11789.4	11842.3	11755.3
32.5°	7491.7	9653.8	11581.2	11342.8	11139.7
35°	7124.6	9520.0	11263.3	10661.6	10375.3
37.5°	6762.5	9391.4	10767.6	9899.7	9684.0
40°	6394.2	9232.4	10057.4	9188.3	9164.3
42.5°	6046.1	9060.9	9253.9	8634.5	8715.2
45°	5679.0	8822.5	8415.0	8132.5	8116.1
47.5°	5330.8	8493.2	7651.9	7577.4	7409.7
50°	4961.2	8039.1	6955.5	6884.9	6540.5
52.5°	4599.2	7460.1	6333.7	6068.8	5566.7
55°	4224.5	6773.9	5734.5	5180.7	4749.3
57.5°	3876.4	6019.6	5125.2	4407.4	4020.2
60°	3500.5	5255.1	4456.6	3728.8	3409.7
62.5°	3132.1	4502.1	3851.2	3151.1	2939.1
65°	2755.0	3800.7	3236.8	2684.3	2498.9
67.5°	2394.2	3193.9	2705.8	2263.0	2139.4
70°	2028.4	2591.0	2236.5	1901.0	1829.1
72.5°	1651.2	2070.0	1808.9	1604.5	1550.3
75°	1318.2	1614.6	1420.4	1300.5	1269.0
77.5°	981.4	1200.9	1110.1	1039.4	1030.6
80°	691.3	866.6	817.4	803.5	789.7
82.5°	441.5	566.4	581.5	572.7	562.6
85°	234.6	333.0	348.2	330.5	326.7
87.5°	94.6	145.1	156.4	172.8	177.9
90°	1.3	34.1	61.8	78.2	80.7
92.5°	1.3	7.6	8.8	8.8	7.6
95°	1.3	5.0	5.0	3.8	2.5
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)