

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: P731040

Luminaire Tested: **HBLED-LD5-36SE-W-FLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-FLI-UNV-L840
Description: 36000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32538.0 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

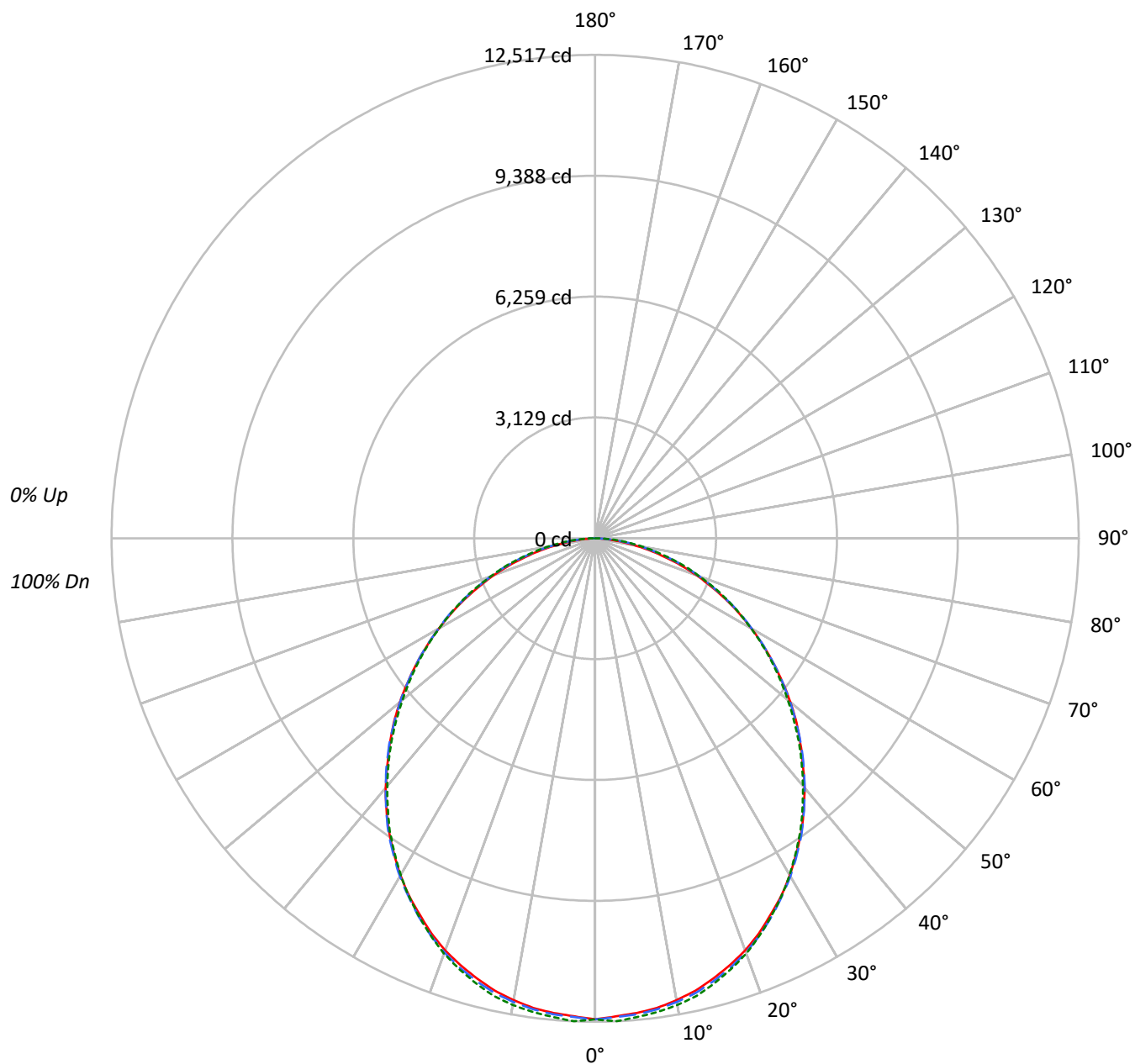
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20112	20112	20112
5°	19998	20054	20168
10°	19907	19987	20117
15°	19732	19839	19936
20°	19508	19602	19659
25°	19147	19256	19228
30°	18794	18845	18768
35°	18329	18376	18259
40°	17778	17778	17641
45°	17156	17203	17028
50°	16567	16539	16332
55°	15850	15852	15709
60°	15082	15100	15041
65°	14215	14357	14393
70°	13129	13489	13503
75°	11603	12354	12546
80°	9517	10819	11431
85°	6604	9085	10272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1178.1	3.6
10°-20°	3351.4	10.3
20°-30°	4980.3	15.3
30°-40°	5823.3	17.9
40°-50°	5806.0	17.8
50°-60°	5037.5	15.5
60°-70°	3720.8	11.4
70°-80°	2083.2	6.4
80°-90°	555.8	1.7
90°-100°	1.7	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°	9509.8	29.2
0°-40°	15333.1	47.1
0°-60°	26176.5	80.4
0°-90°	32536.3	100.0
90°-120°	1.7	0.0
90°-150°	1.7	0.0
90°-180°	2.0	0.0
0°-180°	32538.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12456	12456	12456	12456	12456	
5°	12338	12416	12373	12428	12444	###
15°	11805	11887	11869	11926	11926	3329
25°	10748	10834	10809	10832	10793	4955
35°	9299	9380	9323	9321	9263	5809
45°	7514	7594	7534	7503	7457	5800
55°	5630	5669	5631	5622	5581	5035
65°	3721	3757	3758	3777	3767	3680
75°	1860	1915	1980	1995	2011	1981
85°	356	431	490	534	554	433
90°	0	8	10	21	20	14
95°	0	0	0	0	0	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12456.5	12456.5	12456.5	12456.5	12456.5
2.5°	12388.4	12462.1	12410.5	12459.7	12516.8
5°	12338.4	12416.2	12373.3	12427.9	12443.8
7.5°	12265.6	12340.9	12299.7	12354.3	12371.0
10°	12142.0	12223.6	12191.1	12253.0	12270.4
12.5°	11997.8	12074.6	12053.3	12125.3	12137.2
15°	11804.6	11887.0	11868.7	11925.8	11926.5
17.5°	11590.7	11668.2	11654.8	11699.2	11697.5
20°	11353.9	11436.9	11408.5	11456.8	11441.7
22.5°	11073.4	11162.1	11126.4	11166.9	11128.9
25°	10747.8	10834.2	10808.9	10832.5	10793.0
27.5°	10432.5	10511.8	10459.4	10488.0	10446.0
30°	10080.8	10148.1	10107.8	10117.3	10066.6
32.5°	9685.5	9765.5	9716.4	9714.9	9661.0
35°	9299.0	9380.5	9322.8	9321.1	9263.4
37.5°	8871.2	8947.2	8879.2	8883.1	8815.8
40°	8434.7	8500.5	8434.7	8431.5	8369.9
42.5°	7961.0	8048.2	7988.0	7995.1	7912.8
45°	7513.5	7593.5	7534.1	7503.2	7457.2
47.5°	7067.6	7102.4	7053.2	7045.3	6980.4
50°	6595.4	6621.5	6584.3	6574.8	6502.0
52.5°	6107.5	6152.7	6105.0	6092.4	6044.1
55°	5630.5	5669.3	5631.3	5621.8	5580.6
57.5°	5150.5	5201.2	5162.5	5152.8	5119.7
60°	4670.6	4685.5	4676.1	4690.3	4657.9
62.5°	4193.6	4228.4	4239.6	4235.6	4210.3
65°	3720.7	3757.2	3757.9	3777.0	3767.4
67.5°	3236.7	3284.2	3297.8	3317.5	3326.2
70°	2781.1	2817.6	2857.3	2869.1	2860.4
72.5°	2322.5	2381.2	2425.6	2435.8	2473.1
75°	1860.0	1915.4	1980.4	1994.6	2011.2
77.5°	1430.6	1504.2	1562.9	1581.9	1602.6
80°	1023.5	1105.0	1163.6	1189.7	1229.4
82.5°	671.7	754.9	814.3	840.4	888.8
85°	356.5	431.0	490.4	533.9	554.5
87.5°	105.3	168.7	202.7	215.4	233.7
90°	0.0	7.9	9.5	21.4	19.8
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
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-MV3F9LC





— 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)