

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: P731022

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23762)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-CL-UNV-L840
Description: 36000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
& DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33051.0 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

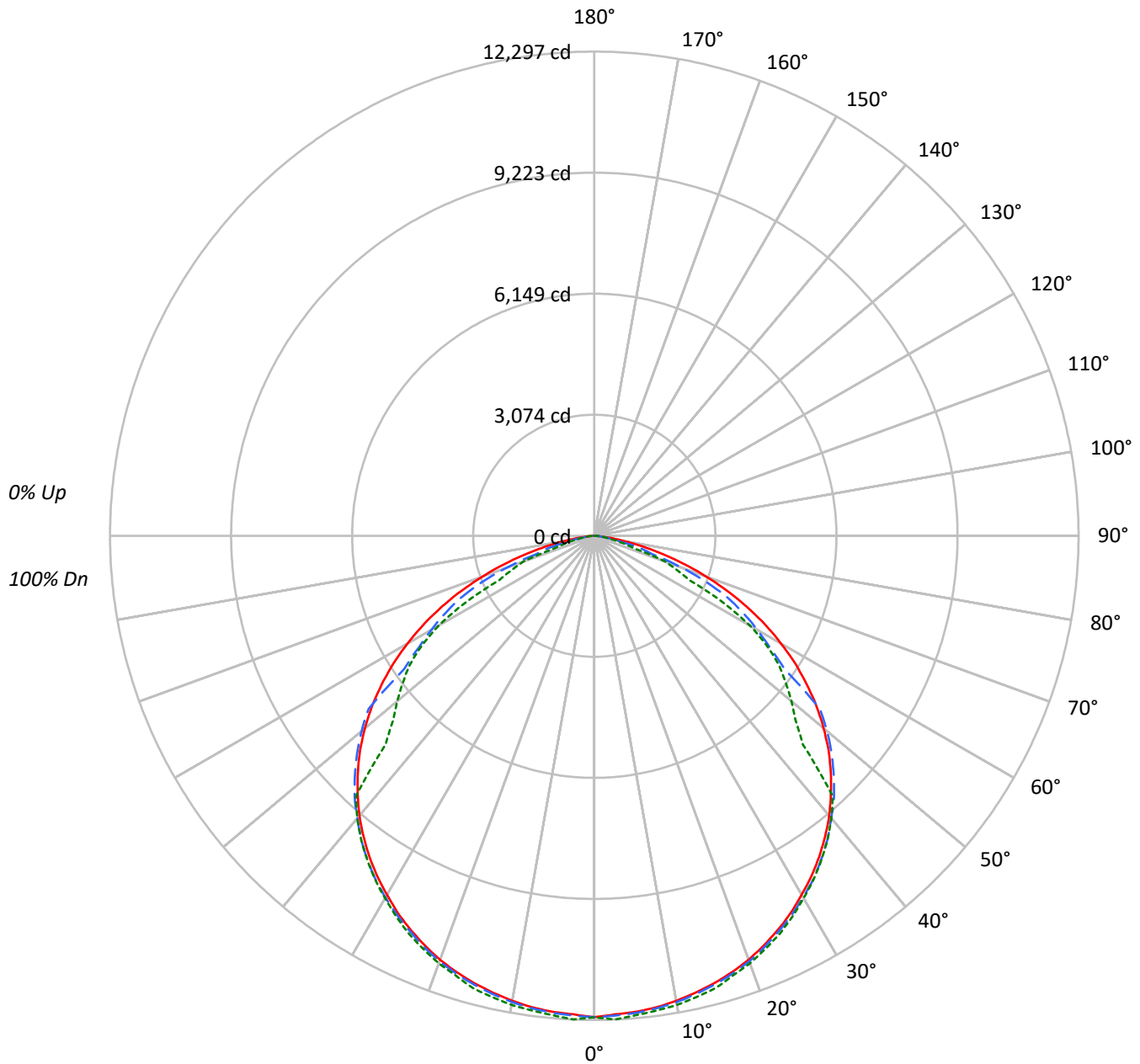
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P731022

CATALOG NUMBER: HBLED-LD5-36SE-W-CL-UNV-L840

Luminous Intensity Polar Plot





TEST NUMBER: P731022

CATALOG NUMBER: HBLED-LD5-36SE-W-CL-UNV-L840

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	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	31	41	35	30	29		
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19739	19739	19739
5°	19667	19711	19807
10°	19665	19721	19836
15°	19664	19724	19883
20°	19689	19763	19855
25°	19666	19740	19860
30°	19629	19773	19818
35°	19620	19799	19813
40°	19559	19731	19731
45°	19391	19625	17100
50°	19091	19379	16407
55°	18550	16589	16116
60°	17679	15420	14723
65°	16350	14314	10196
70°	14236	11138	9086
75°	11246	7475	4884
80°	7239	3570	3044
85°	2979	2179	2397



TEST NUMBER: P731022

CATALOG NUMBER: HBLED-LD5-36SE-W-CL-UNV-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1159.7	3.5
10°-20°	3342.6	10.1
20°-30°	5124.8	15.5
30°-40°	6281.2	19.0
40°-50°	6457.5	19.5
50°-60°	5511.2	16.7
60°-70°	3643.6	11.0
70°-80°	1349.9	4.1
80°-90°	180.5	0.5
90°-100°	0.0	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°	9627.1	29.1
0°-40°	15908.3	48.1
0°-60°	27877.0	84.3
0°-90°	33051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12225	12225	12225	12225	12225	
5°	12135	12220	12161	12209	12221	###
15°	11764	11836	11800	11889	11895	3323
25°	11039	11097	11081	11180	11148	5090
35°	9954	10022	10045	10107	10052	6226
45°	8492	8577	8595	8581	7489	6544
55°	6590	6710	5893	5722	5725	5880
65°	4280	4315	3747	3081	2669	4220
75°	1803	1579	1198	805	783	1934
85°	161	115	118	128	129	266
90°	0	0	0	0	0	



TEST NUMBER: P731022

CATALOG NUMBER: HBLED-LD5-36SE-W-CL-UNV-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12225.4	12225.4	12225.4	12225.4	12225.4
2.5°	12165.9	12241.9	12197.1	12253.7	12296.8
5°	12134.7	12219.5	12161.4	12209.0	12221.0
7.5°	12081.1	12159.9	12106.3	12168.9	12159.9
10°	11994.8	12066.1	12029.0	12094.5	12098.8
12.5°	11884.6	11955.9	11921.8	12002.1	12000.6
15°	11763.9	11835.5	11799.6	11889.1	11895.0
17.5°	11622.6	11688.1	11661.2	11743.2	11710.3
20°	11458.8	11515.4	11501.9	11579.4	11555.5
22.5°	11257.8	11315.9	11302.6	11391.9	11356.1
25°	11039.1	11097.2	11080.7	11180.5	11147.8
27.5°	10802.4	10857.4	10855.9	10949.8	10899.2
30°	10528.5	10601.5	10606.0	10689.3	10629.7
32.5°	10257.6	10326.0	10345.4	10406.5	10355.9
35°	9954.0	10022.3	10044.7	10107.3	10052.2
37.5°	9626.4	9684.5	9724.6	9770.8	9727.6
40°	9279.6	9331.7	9361.5	9418.0	9361.5
42.5°	8892.6	8967.1	9008.7	9048.9	8956.6
45°	8492.1	8576.9	8594.9	8581.4	7488.8
47.5°	8068.0	8160.2	8170.7	7125.7	6924.8
50°	7600.5	7716.7	7715.2	6585.3	6531.8
52.5°	7113.8	7225.5	7221.0	6162.6	6126.9
55°	6589.7	6710.4	5893.1	5722.0	5725.0
57.5°	6055.4	6141.7	5287.4	5294.7	5196.5
60°	5474.9	5556.7	4775.3	4729.1	4559.4
62.5°	4892.9	4927.1	4279.6	4054.7	3731.8
65°	4279.6	4315.3	3746.7	3081.3	2668.9
67.5°	3650.0	3685.7	3109.5	2292.4	2261.0
70°	3015.7	2724.0	2359.4	1909.9	1924.7
72.5°	2390.6	2092.9	1542.1	1479.6	1068.7
75°	1802.7	1579.3	1198.3	805.3	782.9
77.5°	1254.9	1088.1	641.6	549.3	513.6
80°	778.5	546.3	384.0	340.9	327.4
82.5°	394.5	314.1	208.4	208.4	208.4
85°	160.8	114.7	117.6	128.0	129.4
87.5°	34.2	46.1	56.6	58.1	56.6
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)