

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: P730963

Luminaire Tested: **HBLED-LD5-36HE-W-AI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-W-AI-UNV-L850
Description: 36000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32528.0 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

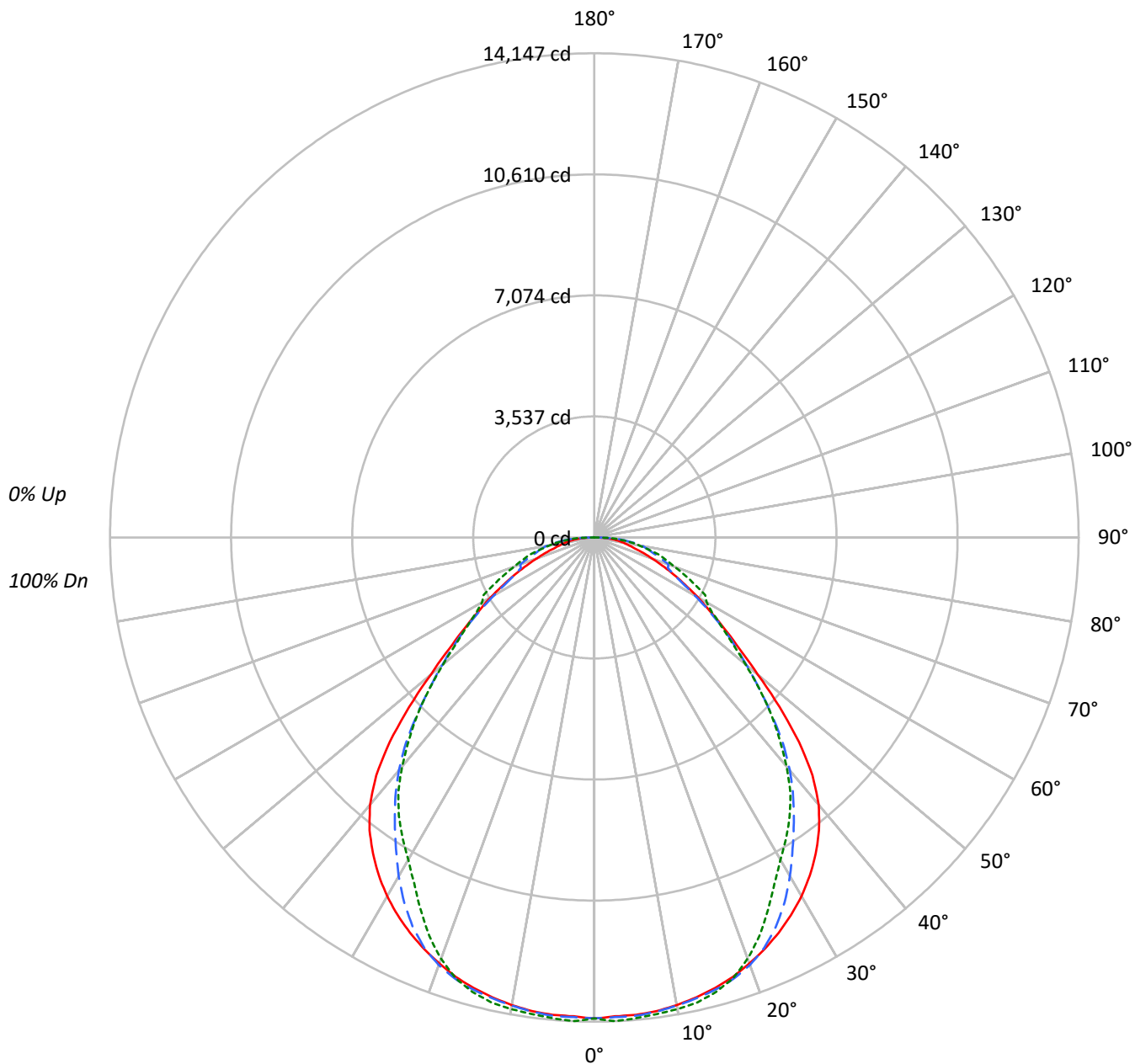
Input Watts (W): 210
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22690	22690	22690
5°	22689	22738	22849
10°	22745	22774	22941
15°	22780	22865	22977
20°	22757	22842	22503
25°	22700	22359	21387
30°	22566	21305	20266
35°	22226	20024	19607
40°	21483	18722	18414
45°	19309	16718	16657
50°	15661	14562	14462
55°	13004	12762	12758
60°	11259	10930	12220
65°	9758	9697	12317
70°	8413	10878	11741
75°	7545	11148	12240
80°	7842	13124	12280
85°	8901	15124	14033



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1338.0	4.1
10°-20°	3864.4	11.9
20°-30°	5739.4	17.6
30°-40°	6515.8	20.0
40°-50°	5824.9	17.9
50°-60°	4027.3	12.4
60°-70°	2657.5	8.2
70°-80°	1792.9	5.5
80°-90°	767.9	2.4
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°	10941.8	33.6
0°-40°	17457.6	53.7
0°-60°	27309.8	84.0
0°-90°	32528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32528.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14053	14053	14053	14053	14053	
5°	13999	14085	14029	14086	14098	###
15°	13628	13693	13679	13756	13746	3847
25°	12742	12863	12551	12177	12005	5871
35°	11276	11039	10159	10011	9947	7032
45°	8456	7740	7322	7377	7295	6431
55°	4620	4217	4534	4470	4532	4196
65°	2554	2268	2538	2968	3224	2549
75°	1209	1521	1787	1910	1962	1321
85°	480	668	816	821	758	501
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14053.1	14053.1	14053.1	14053.1	14053.1
2.5°	14005.4	14092.9	14027.7	14088.1	14146.9
5°	13998.9	14084.9	14029.2	14086.5	14097.7
7.5°	13959.2	14038.7	13973.5	14029.2	14041.9
10°	13873.2	13967.2	13890.7	13976.7	13992.7
12.5°	13761.9	13857.4	13790.5	13908.2	13914.7
15°	13628.2	13693.4	13679.2	13755.5	13745.9
17.5°	13459.5	13534.4	13523.2	13542.2	13497.7
20°	13244.7	13329.0	13294.0	13206.5	13096.7
22.5°	13014.0	13115.7	12977.4	12756.2	12601.8
25°	12741.8	12862.7	12550.9	12177.0	12005.0
27.5°	12441.0	12549.3	12030.5	11572.2	11394.0
30°	12103.7	12149.8	11427.3	10991.3	10870.3
32.5°	11713.8	11647.0	10782.8	10494.8	10424.8
35°	11276.3	11039.1	10159.1	10011.1	9947.4
37.5°	10782.8	10348.5	9543.3	9474.8	9407.9
40°	10192.6	9551.1	8882.9	8838.3	8736.4
42.5°	9430.3	8683.9	8149.2	8096.7	8006.0
45°	8456.4	7740.2	7321.7	7377.4	7294.7
47.5°	7336.0	6793.4	6527.7	6680.5	6527.7
50°	6234.8	5870.5	5797.3	5935.7	5757.5
52.5°	5332.5	5004.8	5156.0	5179.8	5073.2
55°	4619.6	4217.1	4533.8	4470.1	4532.1
57.5°	3999.1	3548.6	3938.6	3865.3	4078.6
60°	3486.6	2980.6	3384.8	3368.9	3784.1
62.5°	2983.8	2579.6	2904.2	3138.1	3648.9
65°	2554.1	2267.7	2538.2	2967.9	3224.1
67.5°	2141.9	2033.7	2321.7	2560.4	2840.6
70°	1782.2	1838.0	2304.2	2259.7	2487.2
72.5°	1479.9	1669.4	2033.7	2041.7	2202.4
75°	1209.4	1521.4	1787.1	1909.6	1962.1
77.5°	1005.7	1379.7	1613.7	1656.6	1605.7
80°	843.4	1215.7	1411.5	1392.4	1320.7
82.5°	681.0	921.4	1112.4	1129.9	1045.5
85°	480.5	668.4	816.4	821.2	757.5
87.5°	257.8	412.2	495.0	509.2	471.0
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)