

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: P731016

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731016
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-LD5-36SE-W-AI-UNV-L840
Description: 36000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32318.0 lumens
Efficiency: N/A
Efficacy: 142.1 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

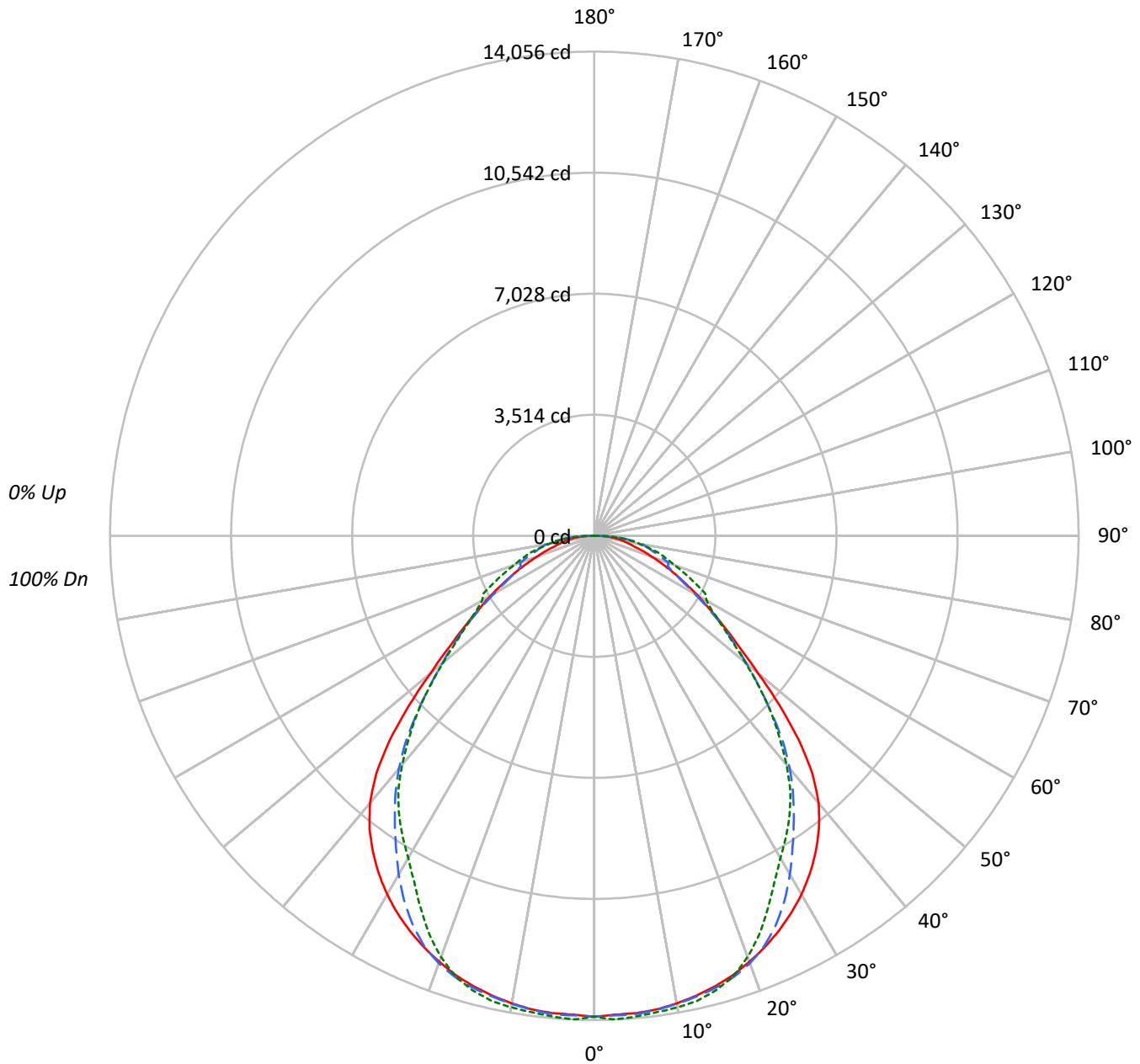
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	22544	22544	22544
5°	22542	22591	22701
10°	22598	22627	22793
15°	22633	22718	22829
20°	22610	22694	22358
25°	22553	22215	21249
30°	22420	21167	20136
35°	22083	19895	19480
40°	21344	18601	18295
45°	19184	16610	16549
50°	15560	14468	14369
55°	12920	12680	12675
60°	11186	10860	12141
65°	9695	9634	12238
70°	8359	10807	11665
75°	7496	11077	12162
80°	7792	13040	12201
85°	8844	15028	13942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1329.4	4.1
10°-20°	3839.4	11.9
20°-30°	5702.3	17.6
30°-40°	6473.7	20.0
40°-50°	5787.3	17.9
50°-60°	4001.3	12.4
60°-70°	2640.3	8.2
70°-80°	1781.3	5.5
80°-90°	762.9	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°	10871.1	33.6
0°-40°	17344.9	53.7
0°-60°	27133.5	84.0
0°-90°	32318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13962	13962	13962	13962	13962	
5°	13909	13994	13939	13996	14007	###
15°	13540	13605	13591	13667	13657	3822
25°	12660	12780	12470	12098	11928	5833
35°	11204	10968	10094	9946	9883	6986
45°	8402	7690	7274	7330	7248	6389
55°	4590	4190	4504	4441	4503	4169
65°	2538	2253	2522	2949	3203	2532
75°	1202	1512	1776	1897	1950	1312
85°	477	664	811	816	753	498
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13962.4	13962.4	13962.4	13962.4	13962.4
2.5°	13915.0	14001.9	13937.1	13997.2	14055.6
5°	13908.6	13994.0	13938.6	13995.5	14006.6
7.5°	13869.1	13948.1	13883.3	13938.6	13951.3
10°	13783.6	13877.0	13801.0	13886.5	13902.3
12.5°	13673.1	13767.9	13701.4	13818.4	13824.8
15°	13540.2	13605.0	13590.9	13666.7	13657.2
17.5°	13372.6	13447.0	13435.9	13454.8	13410.6
20°	13159.2	13242.9	13208.2	13121.2	13012.2
22.5°	12929.9	13031.1	12893.6	12673.8	12520.4
25°	12659.5	12779.7	12469.9	12098.3	11927.5
27.5°	12360.7	12468.2	11952.8	11497.5	11320.4
30°	12025.6	12071.4	11353.5	10920.4	10800.2
32.5°	11638.2	11571.8	10713.2	10427.1	10357.5
35°	11203.5	10967.8	10093.5	9946.5	9883.2
37.5°	10713.2	10281.7	9481.7	9413.7	9347.2
40°	10126.7	9489.5	8825.5	8781.3	8680.0
42.5°	9369.4	8627.8	8096.6	8044.4	7954.3
45°	8401.8	7690.2	7274.4	7329.8	7247.6
47.5°	7288.6	6749.6	6485.6	6637.3	6485.6
50°	6194.5	5832.6	5759.8	5897.4	5720.3
52.5°	5298.1	4972.5	5122.7	5146.4	5040.5
55°	4589.8	4189.8	4504.5	4441.2	4502.8
57.5°	3973.2	3525.7	3913.1	3840.4	4052.3
60°	3464.1	2961.4	3363.0	3347.1	3759.7
62.5°	2964.6	2563.0	2885.4	3117.9	3625.3
65°	2537.6	2253.0	2521.8	2948.7	3203.3
67.5°	2128.1	2020.6	2306.7	2543.9	2822.3
70°	1770.7	1826.1	2289.3	2245.1	2471.1
72.5°	1470.4	1658.6	2020.6	2028.5	2188.2
75°	1201.6	1511.6	1775.6	1897.3	1949.5
77.5°	999.2	1370.8	1603.2	1645.9	1595.3
80°	838.0	1207.9	1402.4	1383.4	1312.2
82.5°	676.6	915.5	1105.2	1122.6	1038.7
85°	477.4	664.1	811.2	815.9	752.6
87.5°	256.1	409.5	491.8	505.9	468.0
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)