

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: P730971

Luminaire Tested: **HBLED-LD5-36HE-W-FLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730971
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-LD5-36HE-W-FLI-UNV-L740
Description: 36000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33649.0 lumens
Efficiency: N/A
Efficacy: 160.2 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

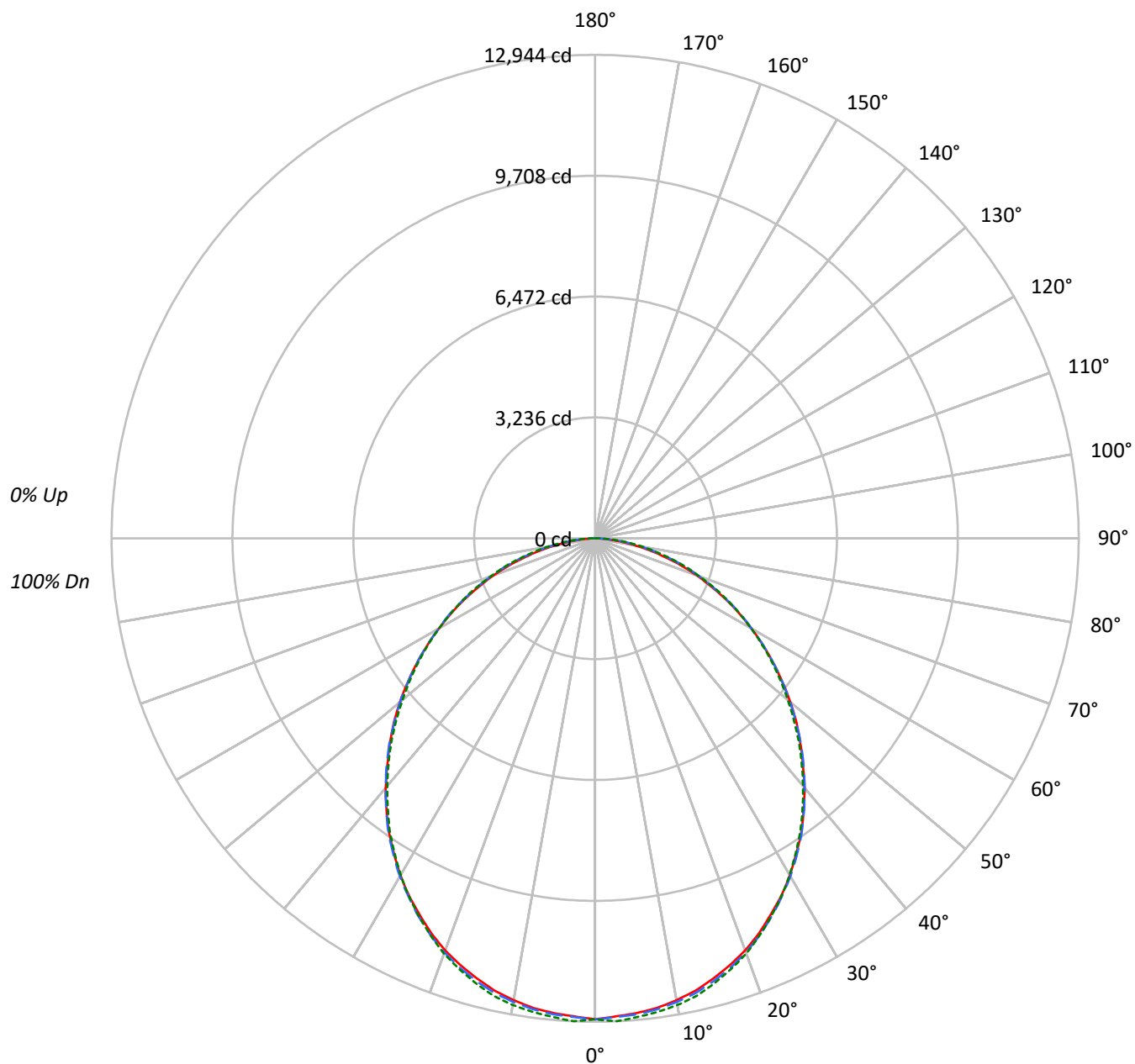
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20799	20799	20799
5°	20680	20739	20857
10°	20586	20670	20804
15°	20406	20516	20616
20°	20175	20272	20330
25°	19801	19913	19884
30°	19436	19488	19409
35°	18955	19003	18882
40°	18385	18385	18243
45°	17742	17791	17609
50°	17132	17103	16890
55°	16391	16393	16246
60°	15597	15615	15555
65°	14700	14847	14884
70°	13577	13949	13964
75°	11999	12776	12975
80°	9841	11189	11822
85°	6830	9394	10622



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1218.3	3.6
10°-20°	3465.8	10.3
20°-30°	5150.4	15.3
30°-40°	6022.1	17.9
40°-50°	6004.2	17.8
50°-60°	5209.5	15.5
60°-70°	3847.8	11.4
70°-80°	2154.3	6.4
80°-90°	574.8	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°	9834.5	29.2
0°-40°	15856.6	47.1
0°-60°	27070.3	80.4
0°-90°	33647.3	100.0
90°-120°	1.7	0.0
90°-150°	1.7	0.0
90°-180°	2.0	0.0
0°-180°	33649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12882	12882	12882	12882	12882	
5°	12760	12840	12796	12852	12869	###
15°	12208	12293	12274	12333	12334	3443
25°	11115	11204	11178	11202	11162	5124
35°	9616	9701	9641	9639	9580	6007
45°	7770	7853	7791	7759	7712	5998
55°	5823	5863	5824	5814	5771	5207
65°	3848	3885	3886	3906	3896	3805
75°	1924	1981	2048	2063	2080	2048
85°	369	446	507	552	573	448
90°	0	8	10	22	20	15
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°	12881.8	12881.8	12881.8	12881.8	12881.8
2.5°	12811.4	12887.6	12834.3	12885.1	12944.1
5°	12759.7	12840.1	12795.7	12852.3	12868.7
7.5°	12684.4	12762.3	12719.6	12776.2	12793.4
10°	12556.5	12641.0	12607.4	12671.3	12689.3
12.5°	12407.5	12486.9	12464.8	12539.3	12551.7
15°	12207.6	12292.9	12273.9	12333.0	12333.8
17.5°	11986.4	12066.6	12052.8	12098.7	12097.0
20°	11741.6	11827.5	11798.1	11848.0	11832.3
22.5°	11451.5	11543.3	11506.3	11548.2	11508.9
25°	11114.8	11204.1	11177.9	11202.4	11161.5
27.5°	10788.8	10870.7	10816.5	10846.1	10802.7
30°	10425.0	10494.6	10452.9	10462.7	10410.3
32.5°	10016.3	10099.0	10048.1	10046.6	9990.8
35°	9616.5	9700.8	9641.1	9639.4	9579.7
37.5°	9174.1	9252.7	9182.3	9186.4	9116.8
40°	8722.7	8790.8	8722.7	8719.4	8655.6
42.5°	8232.8	8323.0	8260.8	8268.0	8182.9
45°	7770.1	7852.8	7791.4	7759.4	7711.8
47.5°	7308.9	7344.9	7294.1	7285.9	7218.8
50°	6820.6	6847.6	6809.1	6799.3	6724.0
52.5°	6316.0	6362.7	6313.5	6300.4	6250.5
55°	5822.8	5862.9	5823.6	5813.8	5771.2
57.5°	5326.4	5378.8	5338.7	5328.8	5294.5
60°	4830.0	4845.5	4835.7	4850.4	4816.9
62.5°	4336.8	4372.8	4384.3	4380.2	4354.0
65°	3847.7	3885.4	3886.2	3906.0	3896.0
67.5°	3347.2	3396.3	3410.4	3430.7	3439.7
70°	2876.1	2913.8	2954.9	2967.0	2958.0
72.5°	2401.8	2462.5	2508.4	2519.0	2557.5
75°	1923.5	1980.8	2048.0	2062.7	2079.9
77.5°	1479.5	1555.6	1616.2	1636.0	1657.3
80°	1058.4	1142.7	1203.4	1230.4	1271.4
82.5°	694.7	780.7	842.1	869.1	919.2
85°	368.7	445.7	507.1	552.1	573.4
87.5°	108.9	174.5	209.7	222.8	241.7
90°	0.0	8.2	9.8	22.1	20.5
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)