

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: P730953

Luminaire Tested: **HBLED-LD5-36HE-N-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-N-UNV-L740
Description: 36000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36491.0 lumens
Efficiency: N/A
Efficacy: 173.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

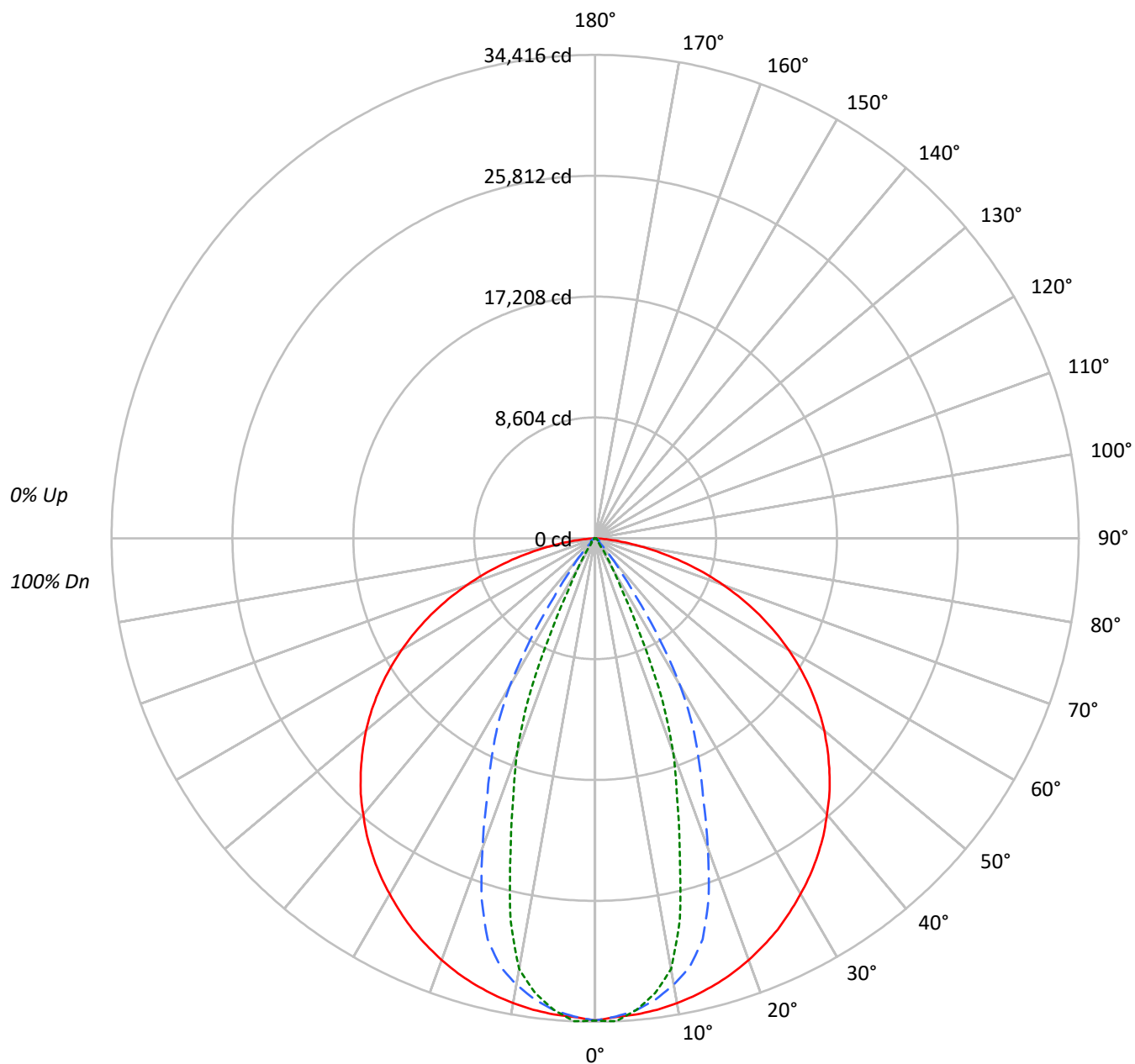
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730953

CATALOG NUMBER: HBLED-LD5-36HE-N-UNV-L740

Luminous Intensity Polar Plot





TEST NUMBER: P730953

CATALOG NUMBER: HBLED-LD5-36HE-N-UNV-L740

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		81
4	92	82	76	70	90	81	75	70	79	73	69		77	72	68		75
5	86	76	69	64	84	75	68	63	73	67	63		71	66	62		70
6	81	70	63	58	79	70	63	58	68	62	58		66	61	57		65
7	76	66	58	54	75	65	58	53	63	57	53		62	57	53		61
8	72	61	54	49	71	61	54	49	59	53	49		58	53	49		57
9	68	57	51	46	67	57	50	46	56	50	46		55	49	46		54
10	65	54	47	43	64	53	47	43	53	47	43		52	46	43		51

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	55433	55433	55433
5°	55136	54649	54625
10°	55102	52898	51042
15°	55024	49419	38846
20°	54896	40286	27962
25°	54756	31150	13774
30°	54514	22639	4467
35°	54385	10044	1149
40°	54100	4079	774
45°	53858	1145	824
50°	53439	812	915
55°	52669	965	391
60°	51369	1076	237
65°	49256	686	281
70°	45760	609	347
75°	40030	459	478
80°	29930	562	683
85°	14826	724	906



TEST NUMBER: P730953

CATALOG NUMBER: HBLED-LD5-36HE-N-UNV-L740

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3186.1	8.7
10°-20°	7966.8	21.8
20°-30°	8629.3	23.6
30°-40°	6390.4	17.5
40°-50°	4602.7	12.6
50°-60°	2850.0	7.8
60°-70°	1752.7	4.8
70°-80°	923.9	2.5
80°-90°	189.1	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°	19782.2	54.2
0°-40°	26172.6	71.7
0°-60°	33625.2	92.1
0°-90°	36491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	36491.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	34332	34332	34332	34332	34332	
5°	34019	34145	33718	33743	33704	###
15°	32918	32154	29565	25142	23239	9292
25°	30736	28154	17486	11000	7732	14162
35°	27592	19452	5096	1199	583	17262
45°	23587	10959	501	362	361	18191
55°	18710	2257	343	310	139	16703
65°	12893	238	180	114	74	12721
75°	6417	56	74	96	77	6778
85°	800	21	39	59	49	###
90°	0	0	0	0	0	



TEST NUMBER: P730953

CATALOG NUMBER: HBLED-LD5-36HE-N-UNV-L740

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	34332.4	34332.4	34332.4	34332.4	34332.4
2.5°	34111.9	34329.2	34072.8	34263.9	34415.7
5°	34018.8	34144.6	33718.3	33742.8	33703.6
7.5°	33855.4	33826.1	33109.1	32795.5	32658.4
10°	33608.9	33414.5	32264.8	31609.8	31132.9
12.5°	33290.4	32856.0	31211.3	29128.9	27835.4
15°	32918.0	32153.7	29565.0	25142.2	23239.4
17.5°	32473.7	31390.9	26873.3	21072.1	19373.6
20°	31949.5	30540.0	23446.8	17928.1	16273.7
22.5°	31364.7	29504.5	20118.4	14900.1	12540.0
25°	30736.0	28153.9	17485.5	10999.9	7731.7
27.5°	30009.2	26417.7	15016.1	6479.1	3946.0
30°	29240.0	24327.1	12143.1	3485.3	2396.0
32.5°	28464.2	21957.3	8592.5	2177.1	1358.8
35°	27592.1	19451.9	5095.7	1198.8	583.1
37.5°	26682.2	17155.6	3011.7	545.6	374.0
40°	25668.1	15056.9	1935.3	362.5	367.4
42.5°	24688.2	13100.3	1089.4	357.6	364.2
45°	23587.2	10959.0	501.4	362.5	360.9
47.5°	22448.9	8739.4	325.0	365.8	365.8
50°	21274.7	6248.9	323.4	374.0	364.2
52.5°	20035.0	3898.6	336.5	372.5	298.9
55°	18710.5	2257.1	342.9	310.3	138.9
57.5°	17338.5	1331.0	346.3	178.0	78.4
60°	15907.7	736.5	333.2	132.3	73.5
62.5°	14432.9	351.1	262.9	124.2	71.8
65°	12892.7	238.5	179.6	114.3	73.5
67.5°	11293.9	184.5	142.0	107.8	75.1
70°	9693.3	137.1	129.1	107.8	73.5
72.5°	8066.6	93.1	107.8	109.4	73.5
75°	6416.9	55.6	73.5	96.4	76.7
77.5°	4782.1	34.2	57.1	99.6	93.1
80°	3219.0	29.4	60.4	93.1	73.5
82.5°	1889.7	26.2	58.9	71.8	58.9
85°	800.3	21.3	39.1	58.9	48.9
87.5°	150.2	18.0	31.1	47.3	42.5
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)