

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: P731128

Luminaire Tested: **HBLED-LD5-60HE-N-CLI-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60HE-N-CLI-UNV-L750
Description: 60000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59454.0 lumens
Efficiency: N/A
Efficacy: 167.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

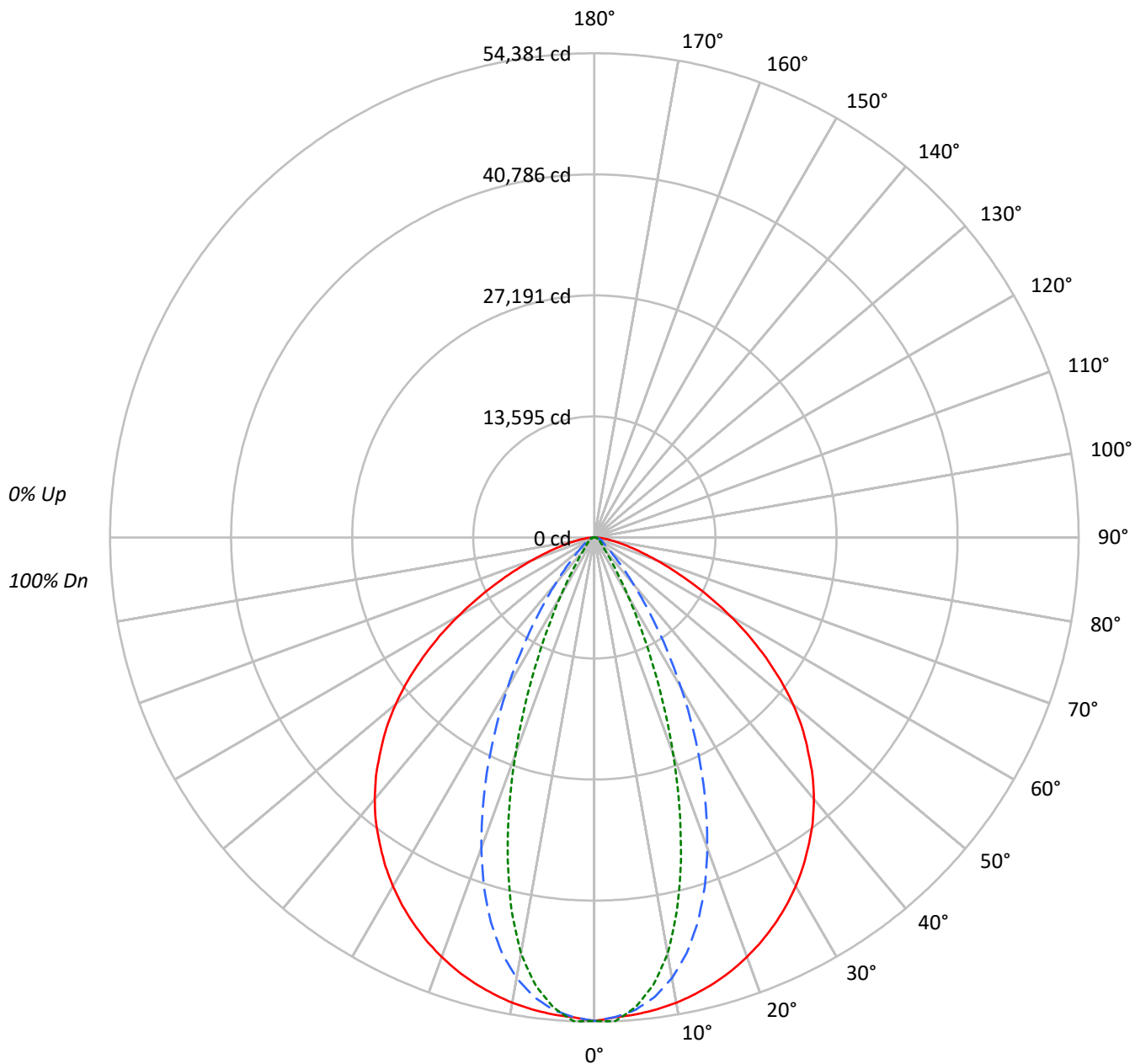
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P731128

CATALOG NUMBER: HBLED-LD5-60HE-N-CLI-UNV-L750

Luminous Intensity Polar Plot





TEST NUMBER: P731128

CATALOG NUMBER: HBLED-LD5-60HE-N-CLI-UNV-L750

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	87683	87683	87683
5°	87156	86289	85835
10°	87010	82381	77739
15°	86660	74883	62782
20°	86140	63719	44498
25°	85369	50244	26885
30°	84332	36263	13817
35°	82810	23707	6901
40°	80846	14240	4027
45°	77487	8504	3011
50°	73084	5561	2529
55°	66145	4219	2206
60°	56842	3593	2013
65°	45722	3278	1901
70°	34446	3511	1891
75°	25337	3337	1944
80°	18537	3323	2129
85°	13885	4029	2753



TEST NUMBER: P731128

CATALOG NUMBER: HBLED-LD5-60HE-N-CLI-UNV-L750

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5001.3	8.4
10°-20°	12442.3	20.9
20°-30°	13781.8	23.2
30°-40°	11041.6	18.6
40°-50°	7882.3	13.3
50°-60°	5062.9	8.5
60°-70°	2743.7	4.6
70°-80°	1172.8	2.0
80°-90°	325.2	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°	31225.4	52.5
0°-40°	42267.1	71.1
0°-60°	55212.3	92.9
0°-90°	59454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	59454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	54307	54307	54307	54307	54307	
5°	53775	53975	53240	53071	52960	###
15°	51844	50222	44799	39590	37560	14628
25°	47920	42253	28203	18375	15091	22076
35°	42013	30389	12028	4851	3501	26268
45°	33935	17542	3724	1585	1319	26157
55°	23498	7843	1499	921	784	20941
65°	11968	3221	858	592	498	11985
75°	4062	1178	535	372	312	4513
85°	750	312	218	180	149	915
90°	0	0	0	0	0	



TEST NUMBER: P731128

CATALOG NUMBER: HBLED-LD5-60HE-N-CLI-UNV-L750

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	54306.8	54306.8	54306.8	54306.8	54306.8
2.5°	53949.4	54287.0	53923.5	54149.5	54381.1
5°	53774.9	53975.2	53239.9	53071.1	52959.8
7.5°	53471.6	53414.4	52033.1	51137.6	50705.6
10°	53071.1	52607.7	50247.9	48280.2	47416.4
12.5°	52499.1	51543.8	47831.0	44375.7	42911.3
15°	51844.1	50222.4	44799.0	39590.5	37559.5
17.5°	51060.3	48677.6	41174.9	34458.9	31778.7
20°	50133.6	46812.8	37084.7	29007.0	25897.7
22.5°	49098.3	44661.8	32705.4	23572.2	20237.2
25°	47919.7	42253.2	28203.3	18375.1	15091.3
27.5°	46647.0	39579.0	23726.8	13729.8	10734.8
30°	45233.8	36684.2	19450.4	9899.9	7411.3
32.5°	43692.1	33606.5	15477.6	6962.1	5068.6
35°	42013.1	30388.6	12027.7	4851.1	3501.0
37.5°	40293.9	27104.8	9084.5	3429.4	2511.4
40°	38357.4	23832.4	6756.3	2511.4	1910.6
42.5°	36278.1	20623.2	5000.0	1933.5	1547.4
45°	33935.4	17542.5	3724.3	1584.7	1318.8
47.5°	31664.4	14670.9	2828.9	1350.1	1147.0
50°	29095.7	12079.4	2213.9	1178.5	1006.7
52.5°	26369.8	9799.7	1796.3	1038.3	886.7
55°	23497.9	7843.1	1498.7	921.0	783.8
57.5°	20588.9	6212.6	1281.4	820.8	698.0
60°	17602.7	4968.4	1112.7	735.1	623.4
62.5°	14688.1	3973.1	972.4	660.7	557.8
65°	11967.8	3220.6	858.1	592.1	497.7
67.5°	9453.4	2545.7	800.9	532.0	449.2
70°	7296.7	1982.2	743.8	474.8	400.5
72.5°	5529.0	1521.9	658.0	423.3	354.7
75°	4061.6	1178.5	535.0	371.9	311.7
77.5°	2906.2	906.9	434.8	323.1	269.0
80°	1993.6	675.2	357.4	277.4	229.0
82.5°	1295.9	477.8	288.8	229.0	188.7
85°	749.5	311.7	217.5	180.2	148.6
87.5°	323.1	171.5	148.6	134.5	114.3
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)