

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: P731170

Luminaire Tested: **HBLED-LD5-60SE-N-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731170
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-LD5-60SE-N-UNV-L750
Description: 60000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61410.0 lumens
Efficiency: N/A
Efficacy: 167.3 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

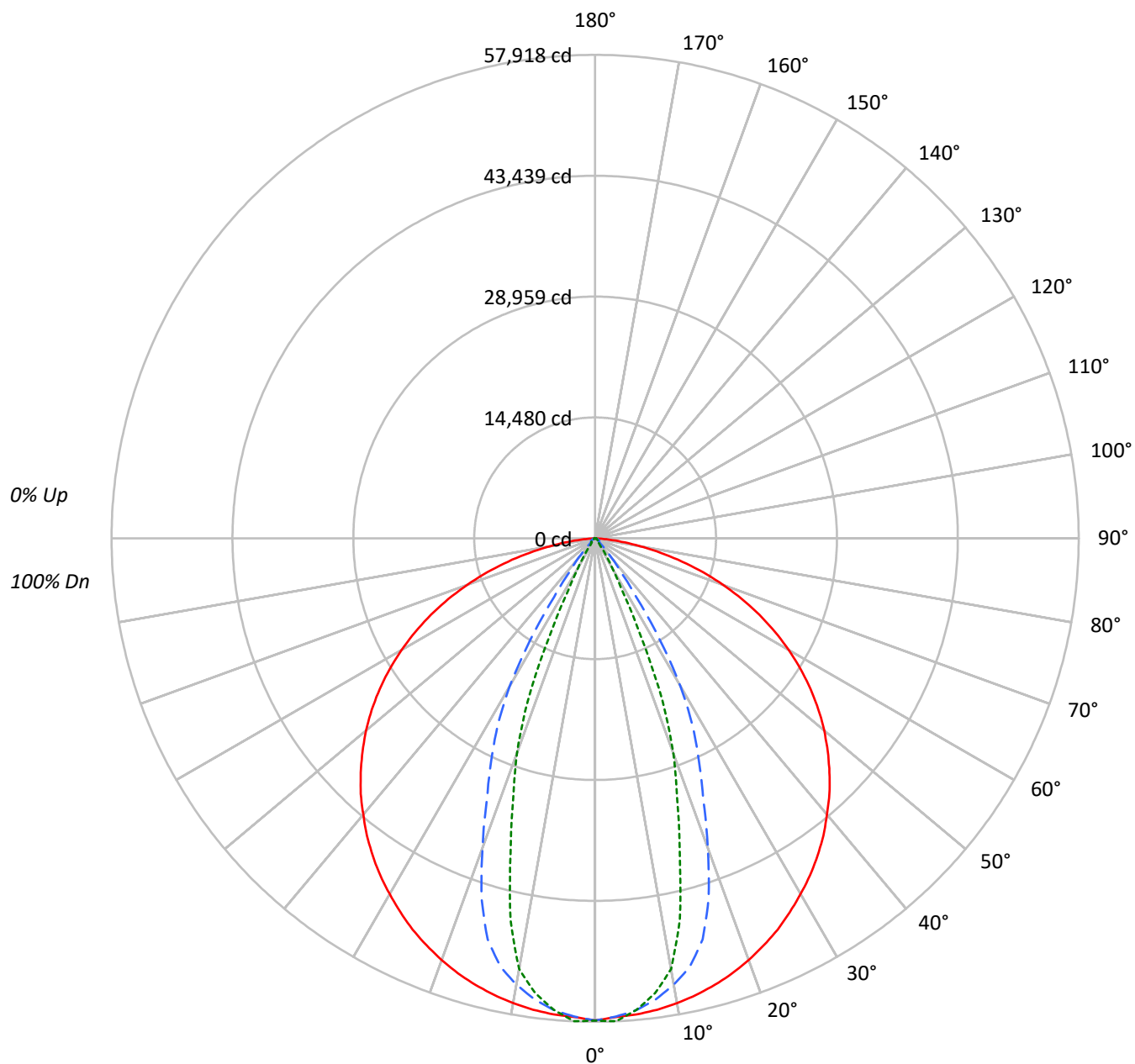
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P731170

CATALOG NUMBER: HBLED-LD5-60SE-N-UNV-L750

Luminous Intensity Polar Plot





TEST NUMBER: P731170

CATALOG NUMBER: HBLED-LD5-60SE-N-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
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°	93286	93286	93286
5°	92788	91968	91928
10°	92730	89021	85898
15°	92599	83166	65373
20°	92383	67797	47056
25°	92148	52422	23180
30°	91741	38099	7517
35°	91524	16903	1934
40°	91045	6865	1303
45°	90637	1927	1387
50°	89931	1367	1540
55°	88636	1625	658
60°	86448	1811	400
65°	82892	1155	473
70°	77007	1026	584
75°	67367	772	805
80°	50370	946	1151
85°	24950	1221	1525



TEST NUMBER: P731170

CATALOG NUMBER: HBLED-LD5-60SE-N-UNV-L750

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5361.8	8.7
10°-20°	13407.2	21.8
20°-30°	14522.1	23.6
30°-40°	10754.2	17.5
40°-50°	7745.8	12.6
50°-60°	4796.1	7.8
60°-70°	2949.6	4.8
70°-80°	1554.9	2.5
80°-90°	318.3	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°	33291.1	54.2
0°-40°	44045.3	71.7
0°-60°	56587.3	92.1
0°-90°	61410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	61410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	57777	57777	57777	57777	57777	
5°	57250	57461	56744	56785	56719	###
15°	55397	54111	49754	42311	39109	15638
25°	51725	47380	29426	18512	13012	23833
35°	46434	32735	8575	2017	981	29050
45°	39694	18443	844	610	607	30613
55°	31488	3798	577	522	234	28109
65°	21697	401	302	192	124	21407
75°	10799	94	124	162	129	11406
85°	1347	36	66	99	82	###
90°	0	0	0	0	0	



TEST NUMBER: P731170

CATALOG NUMBER: HBLED-LD5-60SE-N-UNV-L750

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	57777.3	57777.3	57777.3	57777.3	57777.3
2.5°	57406.3	57772.0	57340.4	57662.0	57917.5
5°	57249.6	57461.2	56743.9	56785.0	56719.2
7.5°	56974.7	56925.3	55718.7	55191.0	54960.2
10°	56559.8	56232.6	54297.8	53195.6	52393.0
12.5°	56023.9	55292.7	52525.0	49020.5	46843.7
15°	55397.1	54110.8	49754.3	42311.4	39109.1
17.5°	54649.4	52827.2	45224.6	35461.8	32603.5
20°	53767.1	51395.1	39458.1	30170.9	27386.7
22.5°	52783.1	49652.6	33856.8	25075.0	21103.4
25°	51725.0	47379.7	29425.9	18511.5	13011.6
27.5°	50501.9	44457.9	25270.2	10903.6	6640.6
30°	49207.5	40939.6	20435.4	5865.3	4032.2
32.5°	47901.8	36951.5	14460.1	3663.8	2286.7
35°	46434.1	32735.2	8575.4	2017.4	981.4
37.5°	44903.0	28870.9	5068.3	918.1	629.5
40°	43196.3	25339.0	3256.9	610.1	618.3
42.5°	41547.3	22046.2	1833.4	601.8	613.0
45°	39694.5	18442.7	843.8	610.1	607.4
47.5°	37778.8	14707.4	546.9	615.6	615.6
50°	35802.8	10516.1	544.2	629.5	613.0
52.5°	33716.6	6560.9	566.2	626.8	503.0
55°	31487.5	3798.5	577.1	522.2	233.7
57.5°	29178.7	2240.0	582.7	299.6	132.0
60°	26770.8	1239.5	560.7	222.6	123.8
62.5°	24288.9	590.9	442.5	209.0	120.8
65°	21697.0	401.3	302.2	192.3	123.8
67.5°	19006.3	310.5	239.0	181.4	126.4
70°	16312.6	230.8	217.3	181.4	123.8
72.5°	13575.2	156.7	181.4	184.1	123.8
75°	10798.9	93.5	123.8	162.3	129.1
77.5°	8047.7	57.6	96.1	167.6	156.7
80°	5417.3	49.4	101.7	156.7	123.8
82.5°	3180.2	44.1	99.1	120.8	99.1
85°	1346.8	35.9	65.9	99.1	82.3
87.5°	252.8	30.3	52.3	79.7	71.4
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)