

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: P731164

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731164
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-LD5-60SE-N-CLI-UNV-L750
Description: 60000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56818.0 lumens
Efficiency: N/A
Efficacy: 154.8 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

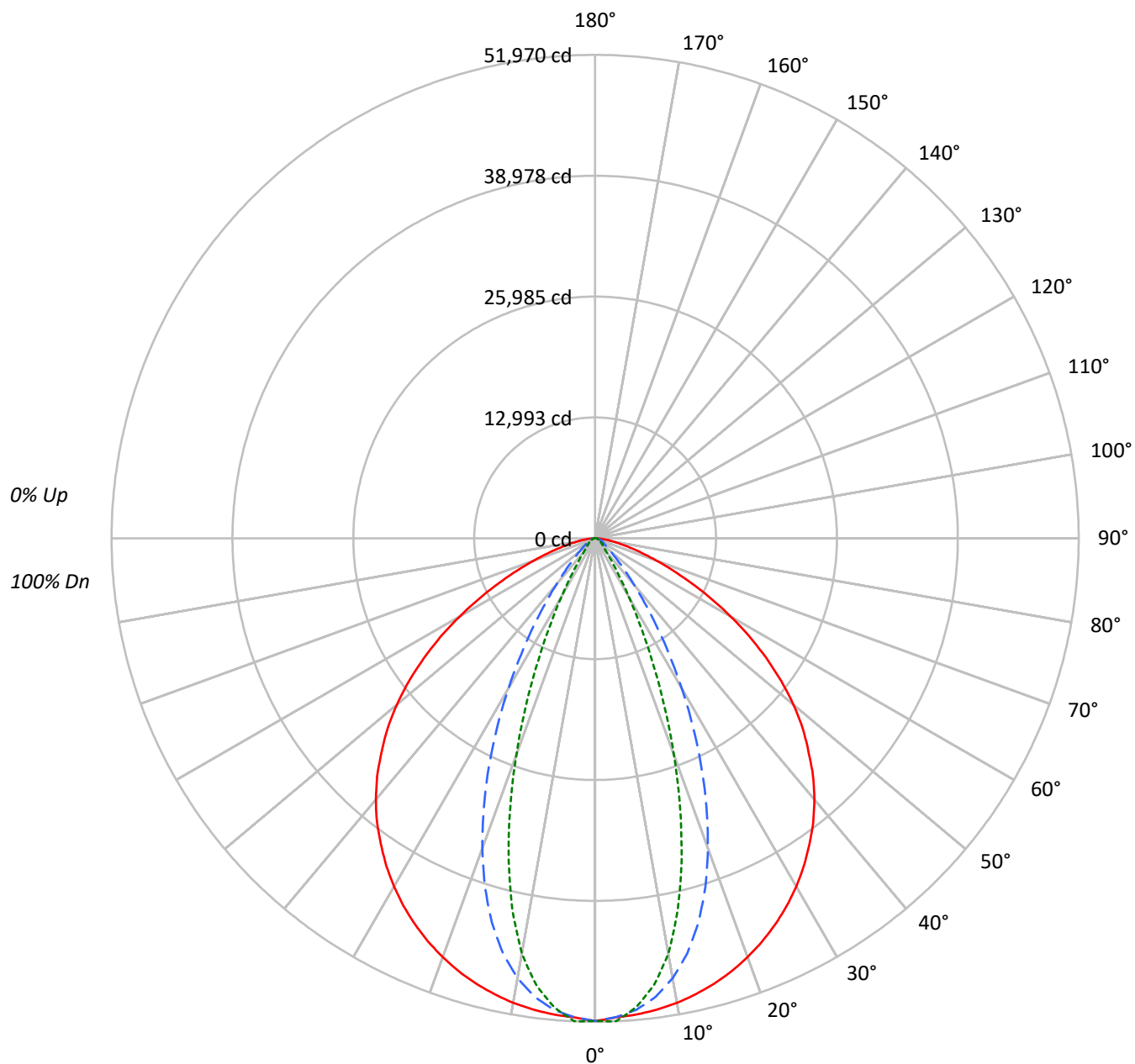
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	83795	83795	83795
5°	83292	82463	82029
10°	83152	78729	74292
15°	82817	71563	59999
20°	82321	60894	42525
25°	81584	48017	25693
30°	80593	34655	13205
35°	79138	22656	6595
40°	77261	13609	3848
45°	74052	8127	2878
50°	69844	5314	2417
55°	63212	4032	2108
60°	54322	3434	1924
65°	43695	3133	1817
70°	32918	3356	1807
75°	24214	3189	1858
80°	17715	3176	2034
85°	13270	3851	2631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4779.6	8.4
10°-20°	11890.7	20.9
20°-30°	13170.7	23.2
30°-40°	10552.1	18.6
40°-50°	7532.8	13.3
50°-60°	4838.4	8.5
60°-70°	2622.1	4.6
70°-80°	1120.8	2.0
80°-90°	310.8	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°	29841.0	52.5
0°-40°	40393.1	71.1
0°-60°	52764.3	92.9
0°-90°	56818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	56818.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	51899	51899	51899	51899	51899	
5°	51391	51582	50879	50718	50612	###
15°	49546	47996	42813	37835	35894	13979
25°	45795	40380	26953	17560	14422	21097
35°	40150	29041	11494	4636	3346	25104
45°	32431	16765	3559	1514	1260	24997
55°	22456	7495	1432	880	749	20013
65°	11437	3078	820	566	476	11453
75°	3882	1126	511	355	298	4313
85°	716	298	208	172	142	875
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	51899.0	51899.0	51899.0	51899.0	51899.0
2.5°	51557.4	51880.0	51532.7	51748.6	51970.0
5°	51390.7	51582.2	50879.4	50718.1	50611.7
7.5°	51100.8	51046.2	49726.1	48870.4	48457.5
10°	50718.1	50275.3	48020.1	46139.6	45314.1
12.5°	50171.5	49258.5	45710.3	42408.2	41008.7
15°	49545.5	47995.7	42812.8	37835.1	35894.2
17.5°	48796.5	46519.4	39349.3	32931.1	30369.7
20°	47910.8	44737.3	35440.5	27720.9	24749.5
22.5°	46921.4	42681.6	31255.4	22527.1	19340.0
25°	45795.1	40379.9	26952.9	17560.4	14422.2
27.5°	44578.8	37824.2	22674.9	13121.0	10258.9
30°	43228.2	35057.8	18588.0	9460.9	7082.7
32.5°	41754.9	32116.5	14791.4	6653.4	4843.9
35°	40150.4	29041.3	11494.4	4636.0	3345.8
37.5°	38507.4	25903.1	8681.7	3277.4	2400.1
40°	36656.8	22775.8	6456.7	2400.1	1825.9
42.5°	34669.6	19708.9	4778.3	1847.7	1478.8
45°	32430.8	16764.8	3559.2	1514.5	1260.3
47.5°	30260.5	14020.5	2703.5	1290.2	1096.1
50°	27805.7	11543.9	2115.7	1126.3	962.1
52.5°	25200.6	9365.2	1716.6	992.3	847.4
55°	22456.0	7495.3	1432.2	880.2	749.0
57.5°	19676.1	5937.1	1224.6	784.4	667.1
60°	16822.3	4748.2	1063.3	702.5	595.8
62.5°	14036.9	3797.0	929.3	631.4	533.1
65°	11437.2	3077.8	820.1	565.9	475.6
67.5°	9034.2	2432.9	765.4	508.4	429.3
70°	6973.1	1894.3	710.8	453.7	382.7
72.5°	5283.8	1454.4	628.9	404.6	339.0
75°	3881.5	1126.3	511.2	355.4	297.9
77.5°	2777.4	866.6	415.5	308.8	257.1
80°	1905.2	645.2	341.6	265.1	218.8
82.5°	1238.4	456.6	276.0	218.8	180.3
85°	716.3	297.9	207.9	172.2	142.0
87.5°	308.8	163.9	142.0	128.5	109.3
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)