

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: P731180

Luminaire Tested: **HBLED-LD5-60SE-W-CLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60SE-W-CLI-UNV-L735
Description: 60000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56148.0 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

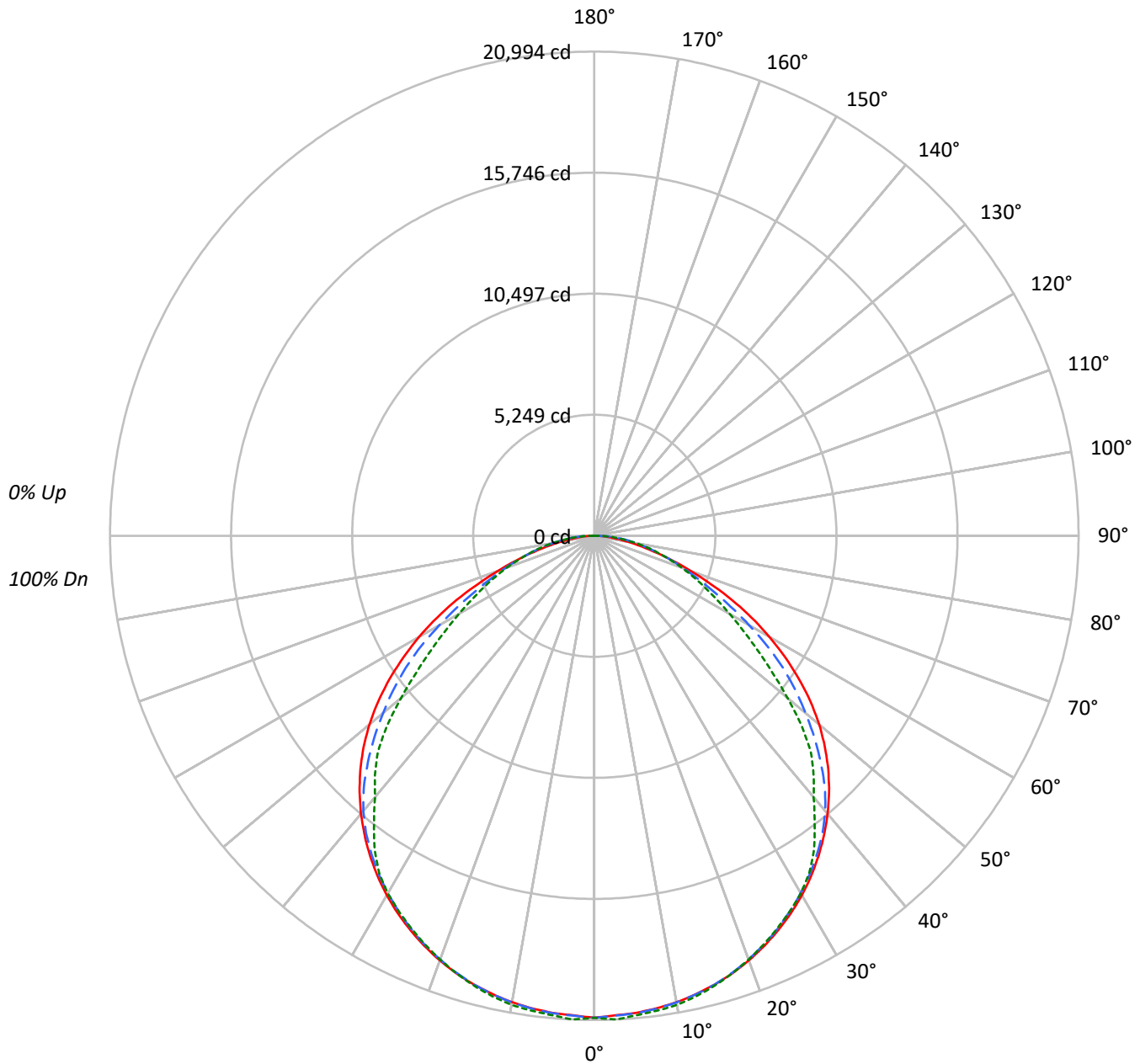
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33742	33742	33742
5°	33652	33676	33827
10°	33671	33687	33864
15°	33675	33671	33750
20°	33667	33589	33597
25°	33615	33490	33450
30°	33560	33359	33378
35°	33404	33196	32726
40°	33166	32827	31172
45°	32745	31696	30310
50°	31957	30009	27451
55°	30502	28066	24273
60°	28307	25041	21890
65°	25160	21681	20129
70°	20880	19376	18973
75°	16888	17732	17953
80°	13414	16960	16890
85°	10502	18220	17380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1981.9	3.5
10°-20°	5700.8	10.2
20°-30°	8692.7	15.5
30°-40°	10516.9	18.7
40°-50°	10652.7	19.0
50°-60°	8804.7	15.7
60°-70°	5815.3	10.4
70°-80°	3032.4	5.4
80°-90°	950.6	1.7
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°	16375.4	29.2
0°-40°	26892.3	47.9
0°-60°	46349.7	82.5
0°-90°	56148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	56148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20898	20898	20898	20898	20898	
5°	20763	20889	20778	20868	20871	###
15°	20146	20249	20144	20206	20191	5689
25°	18869	18944	18799	18846	18776	8700
35°	16947	16970	16842	16819	16604	10600
45°	14340	14303	13881	13450	13274	11042
55°	10836	10675	9970	9002	8623	9658
65°	6586	6395	5675	5306	5269	6505
75°	2707	2755	2842	2880	2878	2949
85°	567	730	984	976	938	688
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20898.5	20898.5	20898.5	20898.5	20898.5
2.5°	20810.9	20933.7	20830.8	20921.1	20993.9
5°	20763.1	20888.7	20778.2	20868.5	20871.0
7.5°	20670.4	20795.8	20682.8	20773.1	20770.6
10°	20537.3	20655.3	20547.3	20655.3	20655.3
12.5°	20356.8	20472.1	20366.8	20467.0	20451.9
15°	20146.1	20248.8	20143.5	20206.2	20191.1
17.5°	19897.6	19990.5	19872.4	19925.0	19895.1
20°	19594.0	19679.4	19549.0	19616.7	19553.8
22.5°	19252.7	19333.0	19200.1	19250.4	19179.9
25°	18869.0	18944.3	18798.8	18846.4	18776.2
27.5°	18455.0	18522.7	18359.6	18417.4	18362.1
30°	18000.8	18033.6	17893.1	17968.4	17903.2
32.5°	17494.1	17514.2	17391.2	17458.9	17348.6
35°	16947.1	16969.8	16841.9	16819.2	16603.5
37.5°	16362.6	16372.7	16252.3	16048.9	15692.7
40°	15735.5	15730.5	15574.9	15105.7	14789.5
42.5°	15065.4	15063.2	14789.5	14255.1	14074.6
45°	14340.5	14302.9	13881.3	13449.8	13274.1
47.5°	13562.9	13522.6	12933.0	12589.4	12190.4
50°	12722.3	12652.1	11947.0	11477.8	10928.5
52.5°	11816.6	11708.6	10991.2	10233.5	9714.2
55°	10835.6	10675.0	9970.2	9001.8	8623.0
57.5°	9814.6	9576.2	8891.3	7948.1	7639.5
60°	8765.9	8499.9	7754.7	6979.7	6778.8
62.5°	7687.0	7423.7	6663.5	6079.0	5968.5
65°	6585.7	6394.9	5675.0	5306.2	5268.7
67.5°	5456.7	5389.0	4839.5	4651.4	4636.3
70°	4423.1	4410.5	4104.4	4009.0	4019.1
72.5°	3535.0	3519.9	3474.9	3427.0	3429.5
75°	2707.1	2754.7	2842.5	2880.0	2877.8
77.5°	2019.6	2117.5	2303.1	2378.3	2365.7
80°	1442.7	1588.2	1824.0	1894.3	1816.5
82.5°	960.8	1113.9	1392.3	1402.4	1339.7
85°	566.9	730.0	983.5	976.0	938.2
87.5°	280.9	439.0	589.5	564.4	539.5
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)