

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: P731152

Luminaire Tested: **HBLED-LD5-60HE-W-FLI-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60HE-W-FLI-UNV-L750
Description: 60000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59254.0 lumens
Efficiency: N/A
Efficacy: 166.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

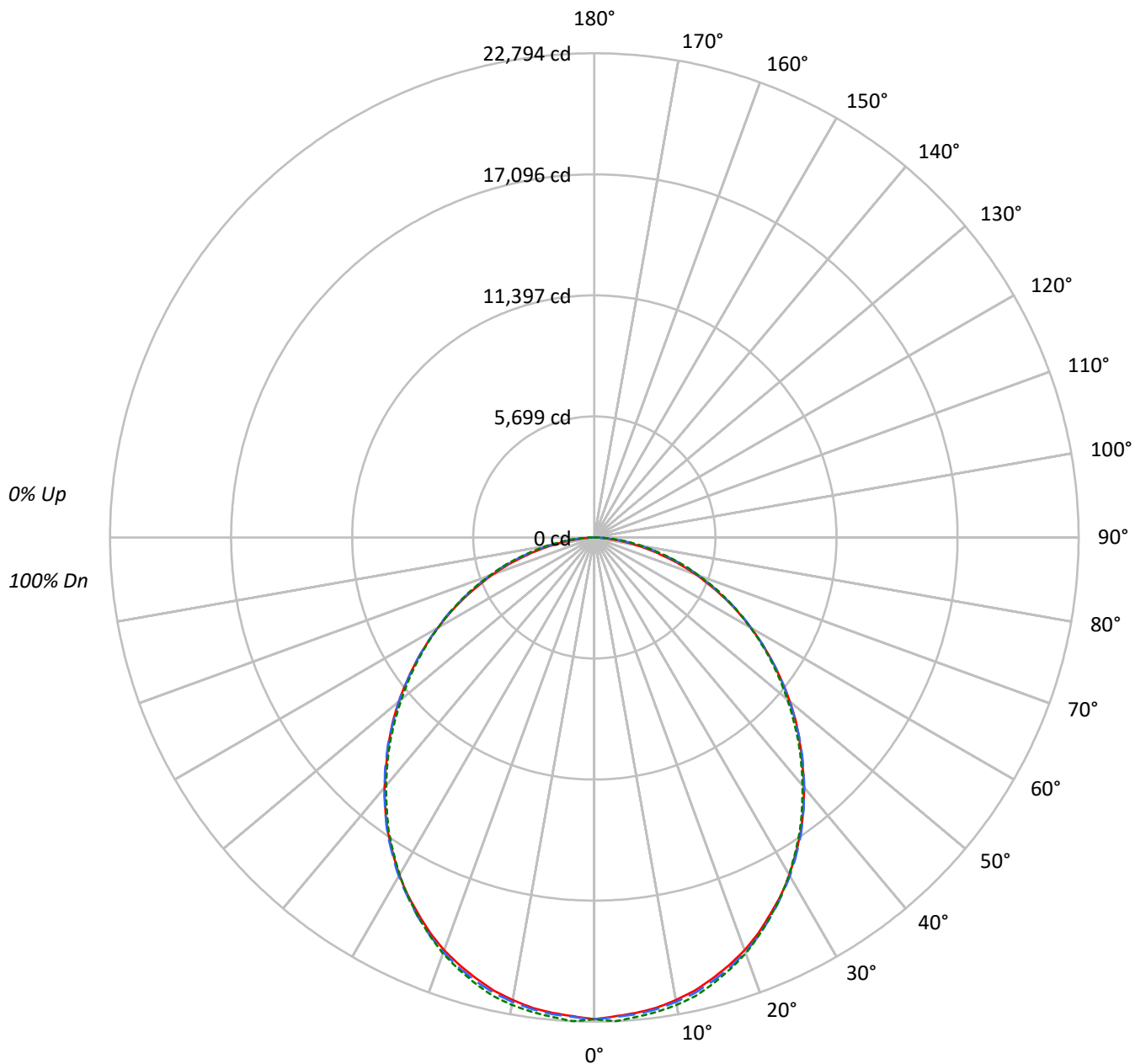
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36625	36625	36625
5°	36417	36520	36728
10°	36252	36398	36635
15°	35933	36128	36304
20°	35526	35697	35801
25°	34868	35067	35015
30°	34226	34318	34178
35°	33378	33463	33250
40°	32375	32375	32126
45°	31243	31328	31008
50°	30169	30118	29742
55°	28863	28867	28607
60°	27465	27498	27391
65°	25886	26145	26211
70°	23909	24564	24590
75°	21130	22498	22848
80°	17330	19703	20817
85°	12027	16543	18707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2145.4	3.6
10°-20°	6103.1	10.3
20°-30°	9069.5	15.3
30°-40°	10604.7	17.9
40°-50°	10573.1	17.8
50°-60°	9173.6	15.5
60°-70°	6775.8	11.4
70°-80°	3793.7	6.4
80°-90°	1012.2	1.7
90°-100°	3.0	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°	17318.0	29.2
0°-40°	27922.6	47.1
0°-60°	47669.3	80.4
0°-90°	59251.0	100.0
90°-120°	3.0	0.0
90°-150°	3.0	0.0
90°-180°	3.0	0.0
0°-180°	59254.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22684	22684	22684	22684	22684	
5°	22469	22611	22533	22632	22661	###
15°	21497	21647	21614	21718	21719	6063
25°	19572	19730	19684	19727	19655	9024
35°	16934	17083	16978	16974	16869	10578
45°	13683	13828	13720	13664	13580	10563
55°	10254	10324	10255	10238	10163	9169
65°	6776	6842	6843	6878	6861	6701
75°	3387	3488	3606	3632	3663	3607
85°	649	785	893	972	1010	788
90°	0	14	17	39	36	26
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22684.1	22684.1	22684.1	22684.1	22684.1
2.5°	22560.1	22694.4	22600.4	22689.9	22793.9
5°	22469.2	22610.7	22532.6	22632.1	22661.0
7.5°	22336.6	22473.6	22398.6	22498.1	22528.4
10°	22111.4	22260.1	22200.9	22313.5	22345.2
12.5°	21848.9	21988.8	21949.8	22081.1	22102.8
15°	21497.0	21647.1	21613.7	21717.7	21719.1
17.5°	21107.5	21248.7	21224.2	21305.1	21302.1
20°	20676.2	20827.5	20775.8	20863.6	20836.1
22.5°	20165.5	20327.1	20262.0	20335.7	20266.4
25°	19572.5	19729.9	19683.7	19726.8	19654.8
27.5°	18998.4	19142.7	19047.3	19099.3	19022.9
30°	18357.8	18480.5	18407.1	18424.3	18332.0
32.5°	17638.1	17783.7	17694.2	17691.4	17593.3
35°	16934.1	17082.6	16977.5	16974.4	16869.3
37.5°	16155.1	16293.6	16169.6	16176.8	16054.2
40°	15360.2	15480.1	15360.2	15354.4	15242.1
42.5°	14497.6	14656.3	14546.8	14559.6	14409.7
45°	13682.7	13828.4	13720.2	13663.8	13580.1
47.5°	12870.6	12934.0	12844.5	12830.0	12711.8
50°	12010.7	12058.2	11990.4	11973.1	11840.5
52.5°	11122.1	11204.4	11117.7	11094.6	11006.8
55°	10253.6	10324.2	10255.0	10237.8	10162.7
57.5°	9379.5	9471.8	9401.2	9383.7	9323.4
60°	8505.4	8532.7	8515.4	8541.3	8482.3
62.5°	7636.9	7700.3	7720.6	7713.3	7667.2
65°	6775.6	6842.0	6843.4	6878.2	6860.7
67.5°	5894.3	5980.7	6005.5	6041.3	6057.2
70°	5064.7	5131.1	5203.4	5224.8	5209.0
72.5°	4229.5	4336.3	4417.2	4435.8	4503.6
75°	3387.1	3488.0	3606.5	3632.3	3662.6
77.5°	2605.3	2739.3	2846.1	2880.8	2918.4
80°	1863.8	2012.3	2119.1	2166.6	2238.9
82.5°	1223.3	1374.8	1483.0	1530.5	1618.6
85°	649.2	784.8	893.0	972.2	1009.8
87.5°	191.8	307.2	369.2	392.3	425.6
90°	0.0	14.5	17.2	38.9	36.1
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)