

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: P731153

Luminaire Tested: **HBLED-LD5-60HE-W-FLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731153
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-L835
Description: 60000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53685.0 lumens
Efficiency: N/A
Efficacy: 151.2 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

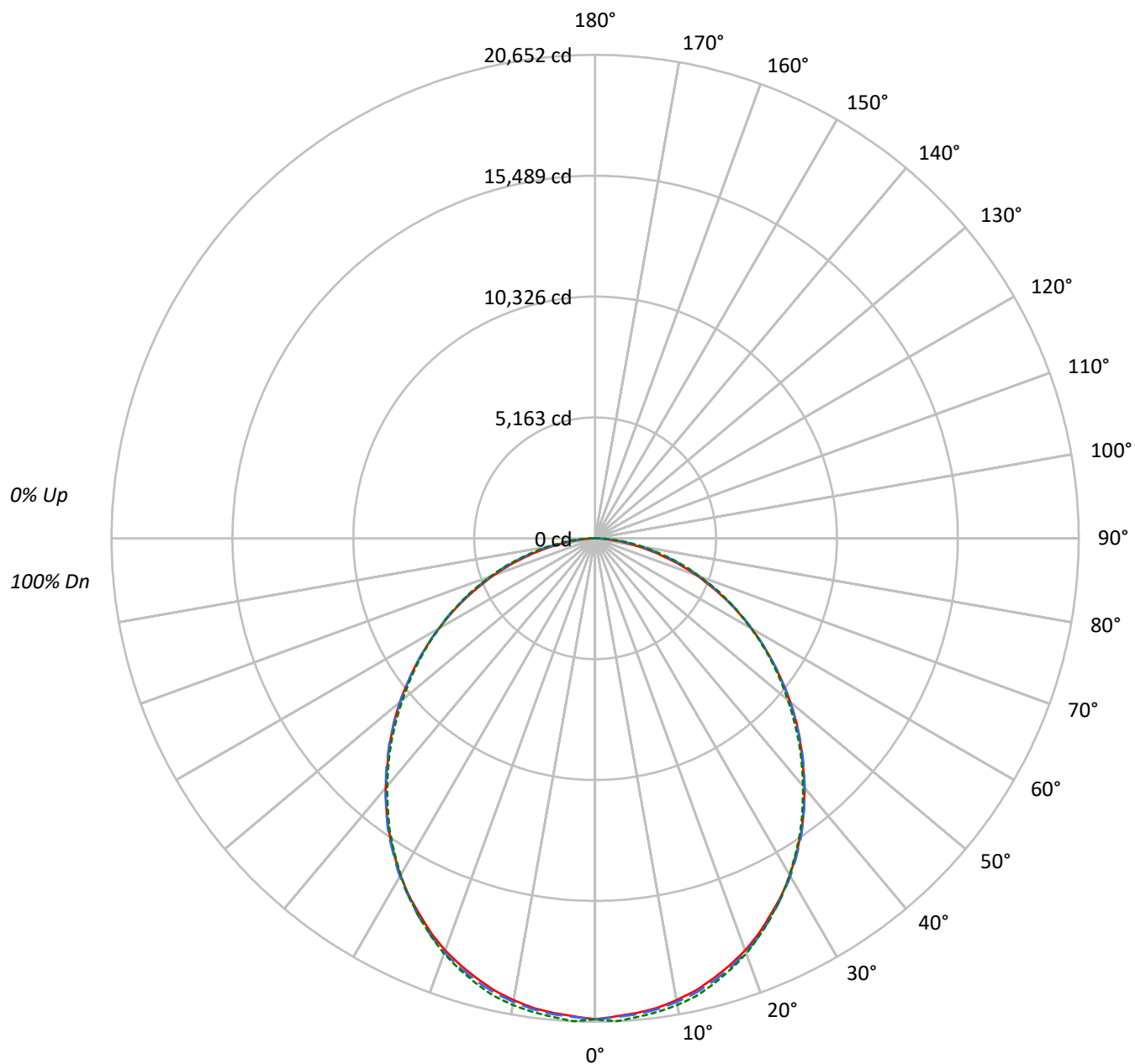
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33183	33183	33183
5°	32994	33087	33276
10°	32844	32977	33192
15°	32556	32733	32892
20°	32187	32342	32436
25°	31591	31771	31724
30°	31009	31092	30965
35°	30241	30318	30125
40°	29332	29332	29106
45°	28306	28384	28094
50°	27334	27288	26946
55°	26151	26154	25919
60°	24884	24913	24817
65°	23453	23687	23747
70°	21662	22255	22279
75°	19144	20384	20701
80°	15702	17851	18861
85°	10897	14989	16949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1943.7	3.6
10°-20°	5529.5	10.3
20°-30°	8217.1	15.3
30°-40°	9608.0	17.9
40°-50°	9579.4	17.8
50°-60°	8311.4	15.5
60°-70°	6138.9	11.4
70°-80°	3437.1	6.4
80°-90°	917.1	1.7
90°-100°	2.8	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°	15690.3	29.2
0°-40°	25298.3	47.1
0°-60°	43189.1	80.4
0°-90°	53682.3	100.0
90°-120°	2.8	0.0
90°-150°	2.8	0.0
90°-180°	3.0	0.0
0°-180°	53685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20552	20552	20552	20552	20552	
5°	20357	20486	20415	20505	20531	###
15°	19477	19613	19582	19677	19678	5493
25°	17733	17876	17834	17873	17808	8176
35°	15343	15477	15382	15379	15284	9584
45°	12397	12529	12431	12380	12304	9570
55°	9290	9354	9291	9276	9208	8307
65°	6139	6199	6200	6232	6216	6071
75°	3069	3160	3268	3291	3318	3268
85°	588	711	809	881	915	714
90°	0	13	16	35	33	24
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°	20552.1	20552.1	20552.1	20552.1	20552.1
2.5°	20439.8	20561.4	20476.3	20557.4	20651.6
5°	20357.4	20485.6	20414.8	20505.0	20531.2
7.5°	20237.3	20361.4	20293.4	20383.6	20411.1
10°	20033.2	20168.0	20114.3	20216.4	20245.1
12.5°	19795.4	19922.1	19886.9	20005.8	20025.4
15°	19476.6	19612.6	19582.4	19676.6	19677.8
17.5°	19123.7	19251.6	19229.5	19302.8	19300.0
20°	18733.0	18870.0	18823.2	18902.8	18877.8
22.5°	18270.3	18416.6	18357.7	18424.4	18361.7
25°	17733.0	17875.6	17833.7	17872.8	17807.5
27.5°	17212.8	17343.6	17257.2	17304.3	17235.0
30°	16632.5	16743.6	16677.1	16692.7	16609.1
32.5°	15980.3	16112.3	16031.2	16028.7	15939.8
35°	15342.6	15477.1	15381.9	15379.1	15283.9
37.5°	14636.8	14762.2	14649.9	14656.4	14545.3
40°	13916.6	14025.2	13916.6	13911.3	13809.6
42.5°	13135.0	13278.8	13179.6	13191.2	13055.4
45°	12396.7	12528.7	12430.7	12379.6	12303.8
47.5°	11660.9	11718.4	11637.3	11624.2	11517.1
50°	10881.9	10924.9	10863.5	10847.8	10727.7
52.5°	10076.8	10151.4	10072.8	10051.9	9972.3
55°	9289.9	9353.9	9291.2	9275.6	9207.5
57.5°	8498.0	8581.6	8517.6	8501.8	8447.1
60°	7706.0	7730.7	7715.1	7738.5	7685.1
62.5°	6919.1	6976.6	6995.0	6988.4	6946.6
65°	6138.8	6199.0	6200.2	6231.7	6215.9
67.5°	5340.3	5418.6	5441.1	5473.5	5487.9
70°	4588.7	4648.9	4714.4	4733.7	4719.4
72.5°	3832.0	3928.7	4002.0	4018.9	4080.3
75°	3068.8	3160.2	3267.5	3290.9	3318.4
77.5°	2360.5	2481.9	2578.6	2610.1	2644.1
80°	1688.7	1823.2	1919.9	1963.0	2028.5
82.5°	1108.3	1245.6	1343.6	1386.6	1466.5
85°	588.2	711.1	809.1	880.9	914.9
87.5°	173.8	278.3	334.5	355.4	385.6
90°	0.0	13.1	15.6	35.3	32.7
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)