

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: P731150

Luminaire Tested: **HBLED-LD5-60HE-W-FLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731150
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-L735
Description: 60000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56160.0 lumens
Efficiency: N/A
Efficacy: 158.2 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

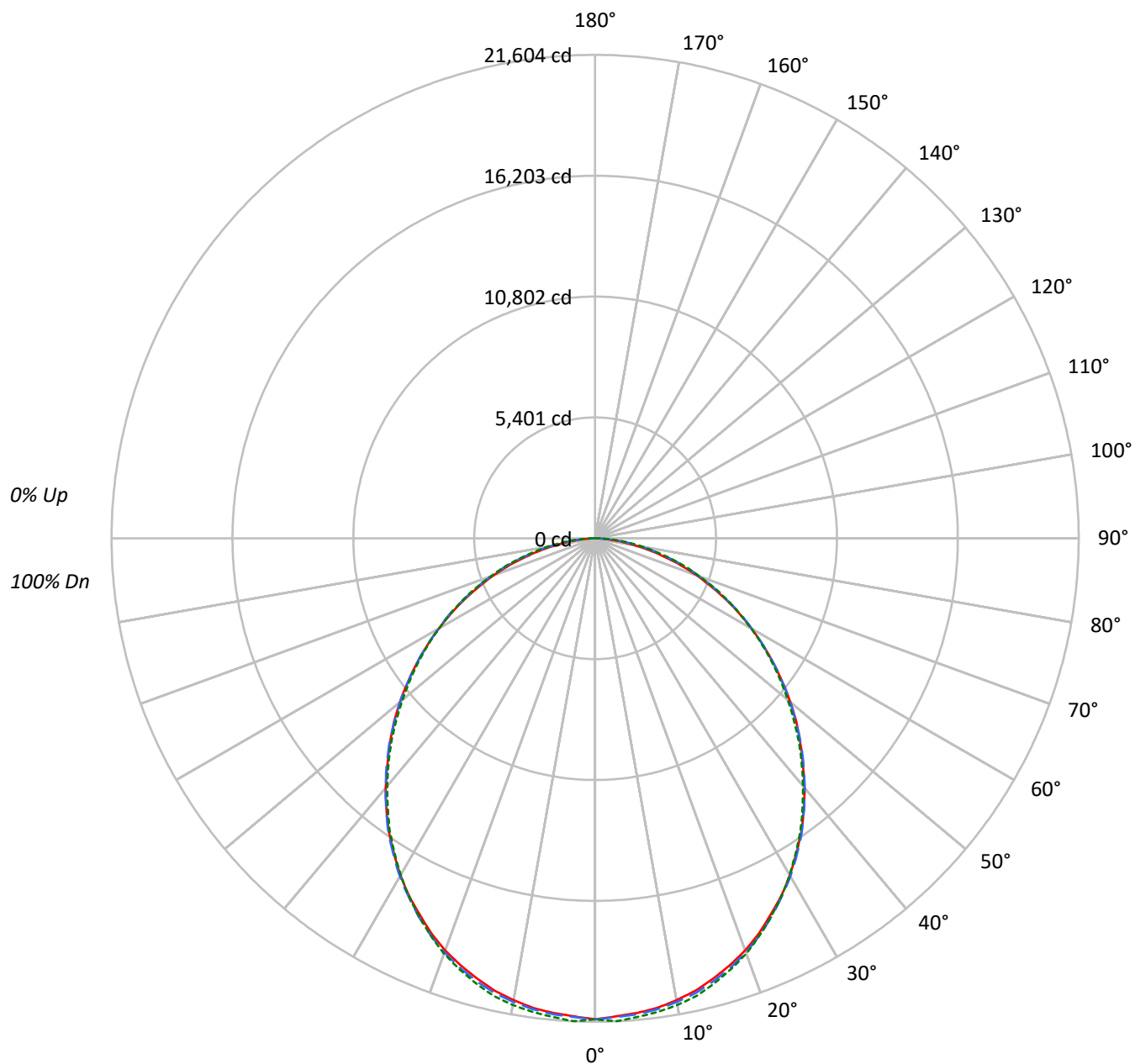
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	34713	34713	34713
5°	34515	34613	34810
10°	34359	34498	34722
15°	34057	34242	34409
20°	33671	33833	33931
25°	33048	33235	33187
30°	32439	32526	32393
35°	31635	31716	31514
40°	30684	30684	30448
45°	29611	29693	29389
50°	28594	28545	28189
55°	27356	27360	27114
60°	26031	26062	25961
65°	24534	24780	24842
70°	22660	23281	23306
75°	20026	21323	21656
80°	16425	18674	19730
85°	11399	15680	17729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2033.3	3.6
10°-20°	5784.4	10.3
20°-30°	8596.0	15.3
30°-40°	10050.9	17.9
40°-50°	10021.0	17.8
50°-60°	8694.6	15.5
60°-70°	6421.9	11.4
70°-80°	3595.6	6.4
80°-90°	959.4	1.7
90°-100°	2.9	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°	16413.7	29.2
0°-40°	26464.6	47.1
0°-60°	45180.2	80.4
0°-90°	56157.1	100.0
90°-120°	2.9	0.0
90°-150°	2.9	0.0
90°-180°	3.0	0.0
0°-180°	56160.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21500	21500	21500	21500	21500	
5°	21296	21430	21356	21450	21478	###
15°	20374	20517	20485	20584	20585	5746
25°	18550	18700	18656	18697	18628	8553
35°	16050	16191	16091	16088	15988	10026
45°	12968	13106	13004	12950	12871	10011
55°	9718	9785	9720	9703	9632	8690
65°	6422	6485	6486	6519	6502	6351
75°	3210	3306	3418	3443	3471	3419
85°	615	744	846	922	957	747
90°	0	14	16	37	34	25
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°	21499.6	21499.6	21499.6	21499.6	21499.6
2.5°	21382.1	21509.4	21420.3	21505.2	21603.7
5°	21295.9	21430.1	21356.0	21450.3	21477.8
7.5°	21170.2	21300.2	21229.0	21323.3	21352.1
10°	20956.8	21097.8	21041.7	21148.4	21178.4
12.5°	20708.1	20840.6	20803.7	20928.1	20948.6
15°	20374.5	20516.8	20485.1	20583.7	20585.0
17.5°	20005.3	20139.2	20116.0	20192.7	20189.8
20°	19596.6	19740.0	19690.9	19774.2	19748.1
22.5°	19112.6	19265.7	19204.0	19273.8	19208.2
25°	18550.5	18699.7	18655.9	18696.8	18628.5
27.5°	18006.4	18143.1	18052.8	18102.0	18029.6
30°	17399.3	17515.5	17445.9	17462.3	17374.8
32.5°	16717.1	16855.1	16770.3	16767.7	16674.6
35°	16049.9	16190.6	16091.0	16088.1	15988.5
37.5°	15311.6	15442.8	15325.3	15332.1	15215.9
40°	14558.2	14671.8	14558.2	14552.7	14446.2
42.5°	13740.6	13891.0	13787.2	13799.3	13657.3
45°	12968.2	13106.3	13003.8	12950.3	12871.0
47.5°	12198.5	12258.6	12173.8	12160.1	12048.1
50°	11383.5	11428.6	11364.3	11348.0	11222.3
52.5°	10541.4	10619.4	10537.2	10515.3	10432.0
55°	9718.2	9785.1	9719.5	9703.2	9632.0
57.5°	8889.8	8977.2	8910.3	8893.7	8836.5
60°	8061.3	8087.1	8070.8	8095.3	8039.4
62.5°	7238.1	7298.2	7317.4	7310.6	7266.8
65°	6421.8	6484.8	6486.1	6519.0	6502.4
67.5°	5586.5	5668.4	5691.9	5725.9	5740.9
70°	4800.2	4863.2	4931.7	4952.0	4937.0
72.5°	4008.7	4109.8	4186.5	4204.2	4268.5
75°	3210.2	3305.9	3418.1	3442.6	3471.4
77.5°	2469.3	2596.3	2697.5	2730.4	2766.0
80°	1766.5	1907.2	2008.4	2053.5	2122.0
82.5°	1159.4	1303.0	1405.5	1450.6	1534.1
85°	615.3	743.9	846.4	921.5	957.0
87.5°	181.8	291.2	349.9	371.8	403.4
90°	0.0	13.7	16.3	36.9	34.3
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)