

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: P731129

Luminaire Tested: **HBLED-LD5-60HE-N-CLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731129
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-LD5-60HE-N-CLI-UNV-L835
Description: 60000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53866.0 lumens
Efficiency: N/A
Efficacy: 151.7 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

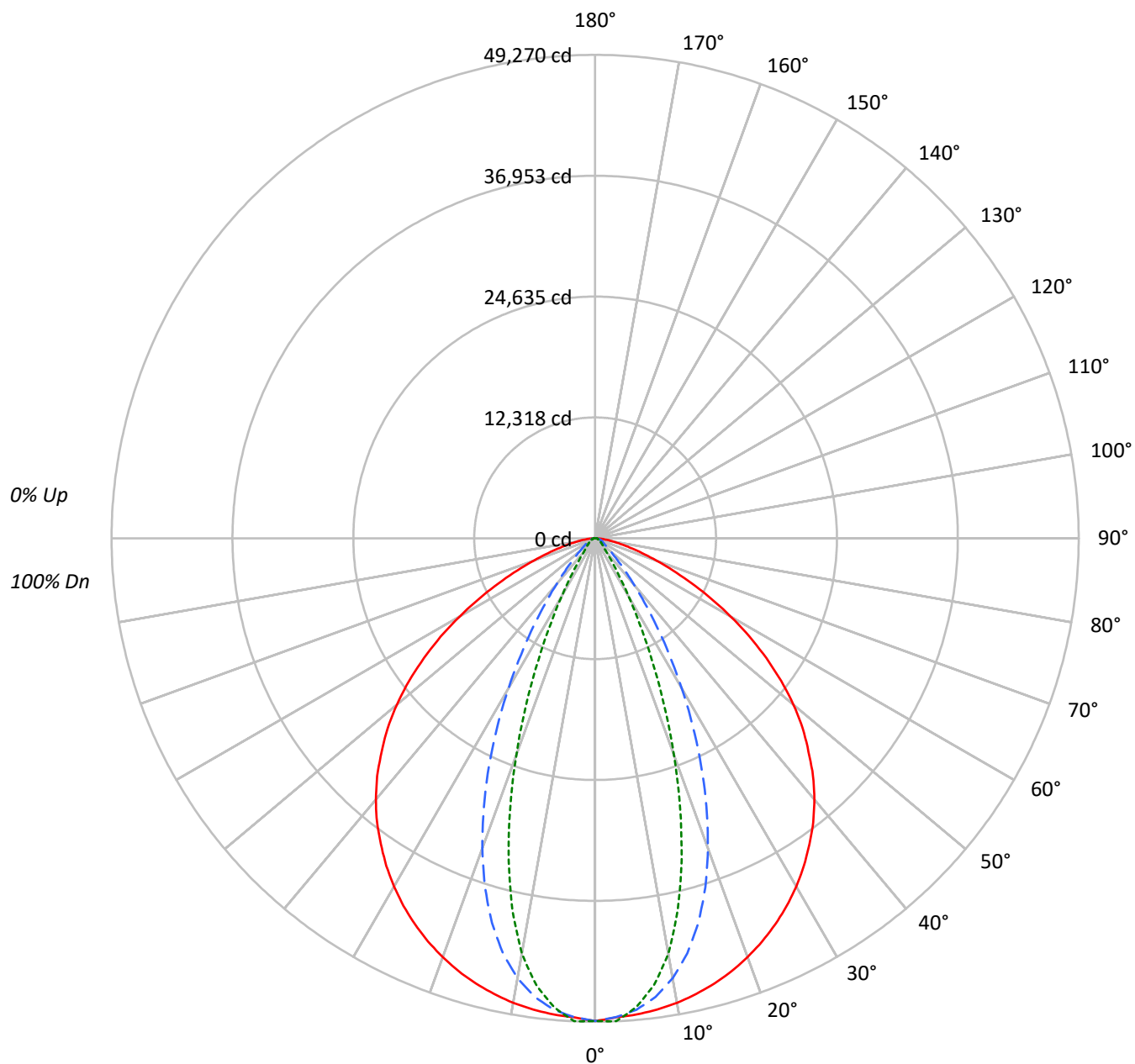
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	79442	79442	79442
5°	78964	78179	77767
10°	78832	74638	70432
15°	78515	67845	56881
20°	78044	57730	40315
25°	77345	45522	24358
30°	76406	32854	12519
35°	75027	21479	6252
40°	73247	12902	3648
45°	70204	7705	2728
50°	66215	5038	2291
55°	59928	3822	1999
60°	51500	3255	1824
65°	41425	2970	1723
70°	31208	3181	1713
75°	22956	3024	1762
80°	16795	3012	1928
85°	12579	3651	2495



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4531.3	8.4
10°-20°	11272.9	20.9
20°-30°	12486.4	23.2
30°-40°	10003.8	18.6
40°-50°	7141.5	13.3
50°-60°	4587.0	8.5
60°-70°	2485.9	4.6
70°-80°	1062.5	2.0
80°-90°	294.7	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°	28290.6	52.5
0°-40°	38294.4	71.1
0°-60°	50022.9	92.9
0°-90°	53866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	53866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	49203	49203	49203	49203	49203	
5°	48721	48902	48236	48083	47982	###
15°	46971	45502	40588	35869	34029	13253
25°	43416	38282	25552	16648	13673	20001
35°	38064	27532	10897	4395	3172	23799
45°	30746	15894	3374	1436	1195	23698
55°	21289	7106	1358	834	710	18973
65°	10843	2918	778	536	451	10858
75°	3680	1068	485	337	282	4089
85°	679	282	197	163	135	829
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	49202.6	49202.6	49202.6	49202.6	49202.6
2.5°	48878.7	49184.6	48855.3	49060.0	49269.9
5°	48720.6	48902.2	48236.0	48083.0	47982.2
7.5°	48445.9	48394.1	47142.5	46331.3	45939.8
10°	48083.0	47663.2	45525.2	43742.4	42959.8
12.5°	47564.8	46699.3	43335.4	40204.8	38878.1
15°	46971.4	45502.0	40588.4	35869.4	34029.3
17.5°	46261.2	44102.5	37304.9	31220.2	28791.9
20°	45421.6	42412.9	33599.2	26280.7	23463.6
22.5°	44483.6	40464.1	29631.5	21356.7	18335.2
25°	43415.8	38281.9	25552.5	16648.0	13672.9
27.5°	42262.7	35859.0	21496.8	12439.3	9725.9
30°	40982.3	33236.3	17622.3	8969.4	6714.7
32.5°	39585.5	30447.9	14022.9	6307.7	4592.2
35°	38064.4	27532.4	10897.2	4395.1	3172.0
37.5°	36506.7	24557.3	8230.6	3107.1	2275.4
40°	34752.3	21592.5	6121.3	2275.4	1731.0
42.5°	32868.3	18684.9	4530.1	1751.7	1402.0
45°	30745.9	15893.7	3374.3	1435.8	1194.8
47.5°	28688.3	13292.0	2563.0	1223.2	1039.2
50°	26361.1	10944.1	2005.8	1067.8	912.1
52.5°	23891.3	8878.6	1627.4	940.7	803.4
55°	21289.3	7105.9	1357.8	834.4	710.1
57.5°	18653.8	5628.7	1161.0	743.7	632.4
60°	15948.3	4501.5	1008.1	666.0	564.8
62.5°	13307.6	3599.7	881.0	598.6	505.4
65°	10843.0	2917.9	777.5	536.5	450.9
67.5°	8564.9	2306.5	725.7	482.0	407.0
70°	6610.8	1795.9	673.9	430.2	362.8
72.5°	5009.3	1378.8	596.2	383.5	321.4
75°	3679.8	1067.8	484.7	336.9	282.4
77.5°	2633.1	821.6	393.9	292.8	243.7
80°	1806.3	611.7	323.9	251.3	207.4
82.5°	1174.1	432.9	261.7	207.4	170.9
85°	679.0	282.4	197.1	163.3	134.7
87.5°	292.8	155.4	134.7	121.9	103.6
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)