

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: P731144

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731144
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-LD5-60HE-W-CLI-UNV-L735
Description: 60000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58753.0 lumens
Efficiency: N/A
Efficacy: 165.5 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

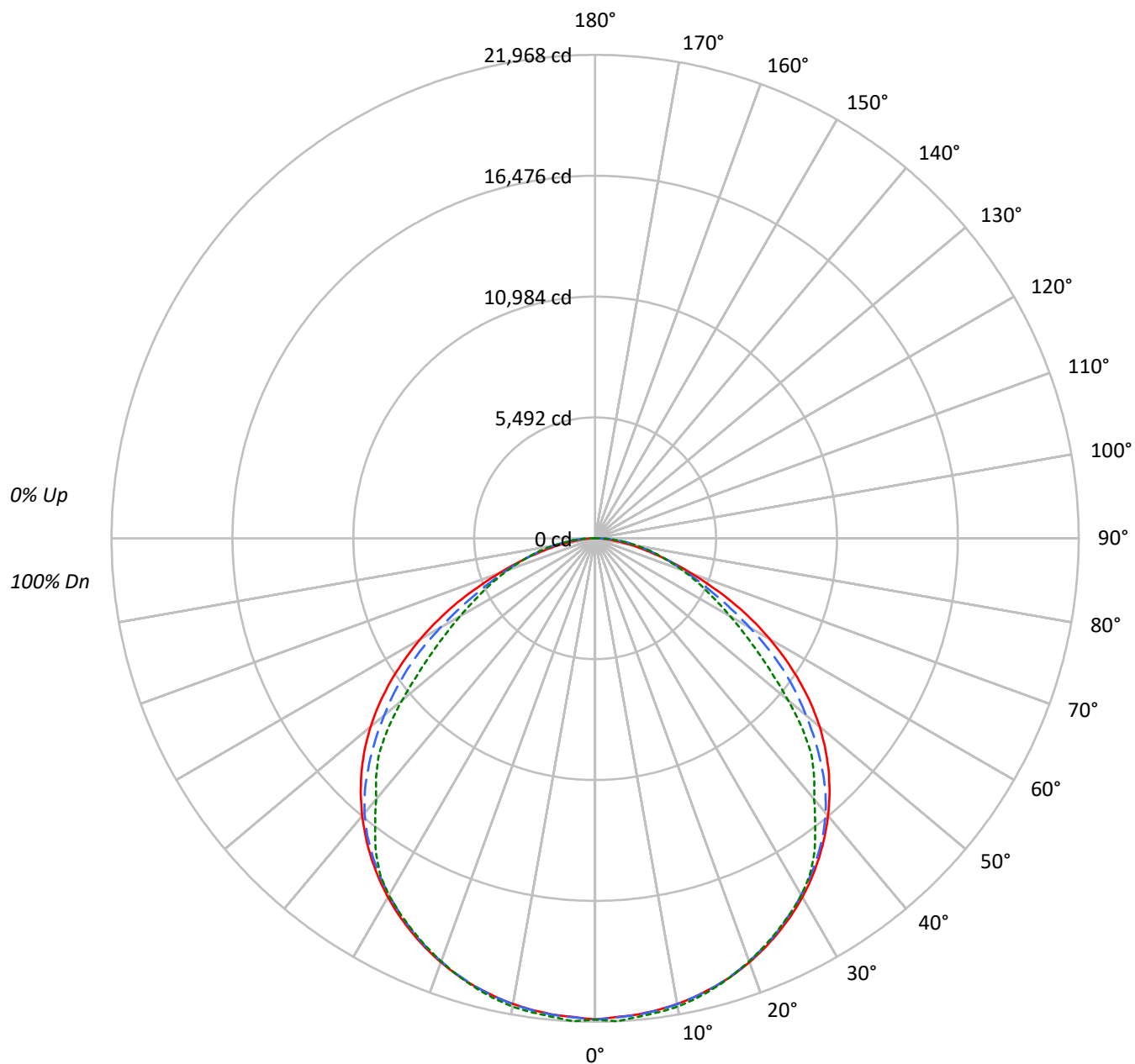
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	35308	35308	35308
5°	35213	35239	35396
10°	35233	35250	35435
15°	35237	35233	35316
20°	35229	35147	35156
25°	35175	35044	35002
30°	35117	34907	34927
35°	34953	34736	34245
40°	34704	34350	32618
45°	34264	33167	31716
50°	33439	31401	28725
55°	31917	29368	25399
60°	29620	26203	22906
65°	26328	22687	21062
70°	21849	20275	19854
75°	17671	18555	18785
80°	14036	17746	17673
85°	10989	19064	18186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2073.9	3.5
10°-20°	5965.3	10.2
20°-30°	9096.0	15.5
30°-40°	11004.8	18.7
40°-50°	11146.9	19.0
50°-60°	9213.2	15.7
60°-70°	6085.1	10.4
70°-80°	3173.0	5.4
80°-90°	994.7	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°	17135.2	29.2
0°-40°	28140.0	47.9
0°-60°	48500.1	82.5
0°-90°	58753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	58753.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21868	21868	21868	21868	21868	
5°	21726	21858	21742	21837	21839	###
15°	21081	21188	21078	21144	21128	5953
25°	19744	19823	19671	19721	19647	9104
35°	17733	17757	17623	17600	17374	11092
45°	15006	14966	14525	14074	13890	11555
55°	11338	11170	10433	9419	9023	10106
65°	6891	6692	5938	5552	5513	6806
75°	2833	2882	2974	3014	3011	3086
85°	593	764	1029	1021	982	720
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21868.1	21868.1	21868.1	21868.1	21868.1
2.5°	21776.4	21904.9	21797.2	21891.8	21967.9
5°	21726.4	21857.8	21742.2	21836.7	21839.4
7.5°	21629.4	21760.6	21642.3	21736.9	21734.3
10°	21490.1	21613.6	21500.6	21613.6	21613.6
12.5°	21301.2	21421.9	21311.8	21416.6	21400.8
15°	21080.7	21188.2	21078.1	21143.7	21127.9
17.5°	20820.8	20918.0	20794.4	20849.5	20818.1
20°	20503.1	20592.4	20455.9	20526.8	20461.0
22.5°	20145.9	20229.9	20090.9	20143.5	20069.8
25°	19744.5	19823.2	19671.0	19720.8	19647.3
27.5°	19311.2	19382.0	19211.3	19271.9	19214.0
30°	18836.0	18870.2	18723.3	18802.0	18733.8
32.5°	18305.8	18326.8	18198.0	18268.9	18153.5
35°	17733.4	17757.1	17623.3	17599.6	17373.8
37.5°	17121.7	17132.3	17006.4	16793.5	16420.8
40°	16465.6	16460.3	16297.5	15806.5	15475.7
42.5°	15764.4	15762.0	15475.7	14916.5	14727.6
45°	15005.8	14966.5	14525.3	14073.9	13890.0
47.5°	14192.1	14150.0	13533.1	13173.5	12756.0
50°	13312.6	13239.1	12501.3	12010.3	11435.6
52.5°	12364.9	12251.9	11501.2	10708.3	10164.9
55°	11338.4	11170.3	10432.8	9419.4	9023.0
57.5°	10270.0	10020.5	9303.8	8316.8	7993.9
60°	9172.6	8894.2	8114.5	7303.5	7093.3
62.5°	8043.7	7768.1	6972.7	6361.0	6245.4
65°	6891.3	6691.6	5938.3	5552.4	5513.1
67.5°	5709.9	5639.0	5064.0	4867.2	4851.4
70°	4628.3	4615.2	4294.9	4195.0	4205.6
72.5°	3699.0	3683.2	3636.1	3586.0	3588.7
75°	2832.7	2882.5	2974.4	3013.6	3011.3
77.5°	2113.3	2215.8	2409.9	2488.7	2475.5
80°	1509.6	1661.8	1908.6	1982.1	1900.7
82.5°	1005.4	1165.6	1456.9	1467.4	1401.9
85°	593.2	763.9	1029.1	1021.2	981.7
87.5°	294.0	459.4	616.9	590.6	564.5
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)