

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: P731135

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60HE-N-UNV-L835
Description: 60000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58219.0 lumens
Efficiency: N/A
Efficacy: 164.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

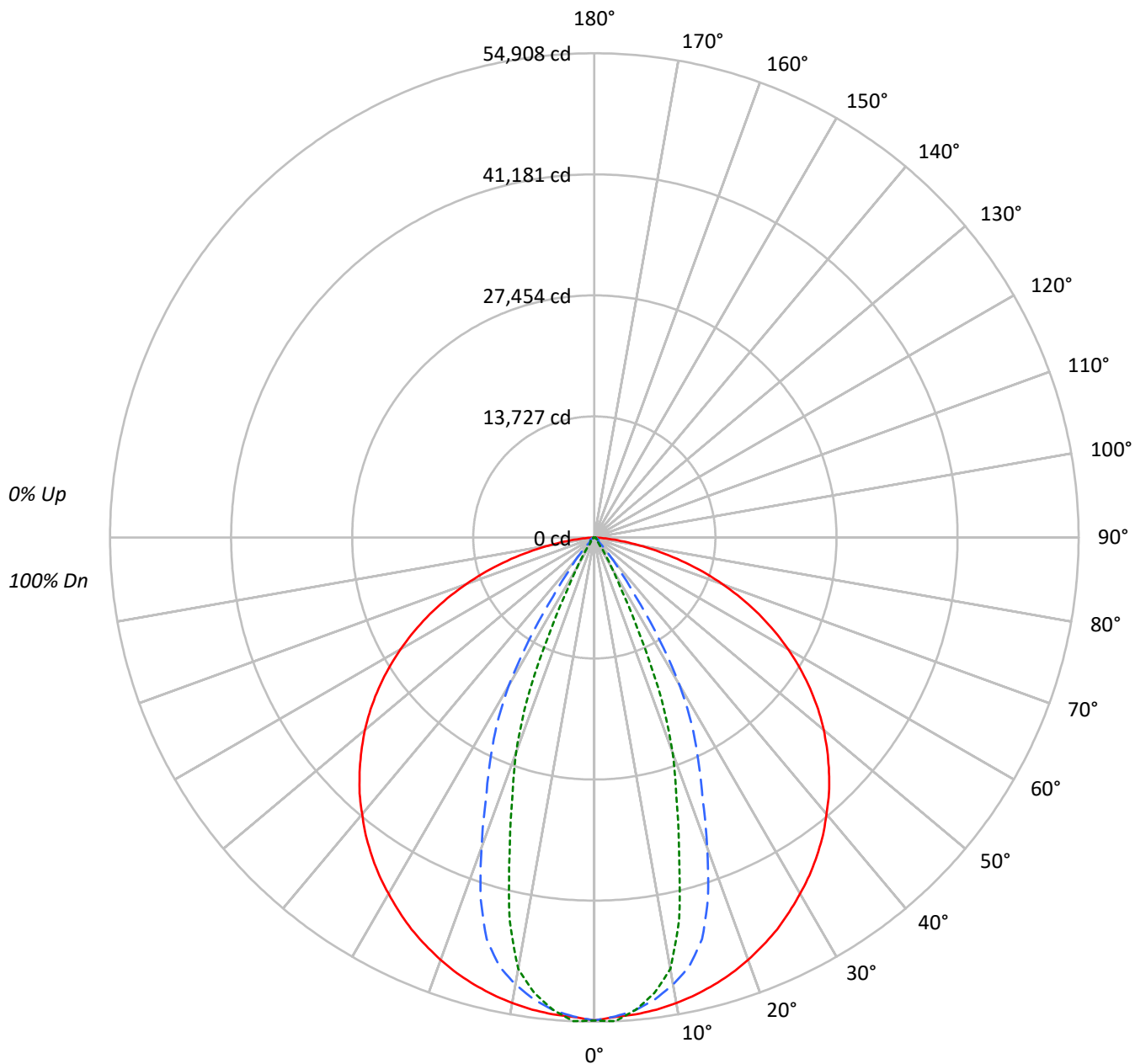
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	76	81	77	74	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55		
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	88439	88439	88439
5°	87966	87189	87151
10°	87911	84395	81435
15°	87787	78845	61976
20°	87583	64274	44611
25°	87360	49698	21976
30°	86974	36119	7127
35°	86768	16024	1834
40°	86314	6508	1236
45°	85928	1826	1315
50°	85258	1296	1460
55°	84030	1540	624
60°	81955	1716	379
65°	78585	1095	448
70°	73006	972	554
75°	63866	732	764
80°	47753	896	1091
85°	23653	1156	1447



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5083.2	8.7
10°-20°	12710.6	21.8
20°-30°	13767.5	23.6
30°-40°	10195.4	17.5
40°-50°	7343.3	12.6
50°-60°	4546.9	7.8
60°-70°	2796.3	4.8
70°-80°	1474.1	2.5
80°-90°	301.7	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°	31561.2	54.2
0°-40°	41756.6	71.7
0°-60°	53646.9	92.1
0°-90°	58219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	58219.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	54775	54775	54775	54775	54775	
5°	54275	54475	53795	53834	53772	###
15°	52518	51299	47169	40113	37077	14825
25°	49037	44918	27897	17550	12336	22595
35°	44021	31034	8130	1913	930	27540
45°	37632	17484	800	578	576	29022
55°	29851	3601	547	495	222	26648
65°	20570	380	286	182	117	20295
75°	10238	89	117	154	122	10813
85°	1277	34	62	94	78	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	54775.1	54775.1	54775.1	54775.1	54775.1
2.5°	54423.3	54770.0	54360.9	54665.8	54908.0
5°	54274.7	54475.4	53795.3	53834.4	53771.9
7.5°	54014.1	53967.3	52823.4	52323.1	52104.3
10°	53620.8	53310.6	51476.3	50431.4	49670.5
12.5°	53112.7	52419.6	49795.6	46473.3	44409.6
15°	52518.5	51299.1	47169.0	40112.8	37076.9
17.5°	51809.7	50082.2	42874.7	33619.1	30909.3
20°	50973.3	48724.5	37407.8	28603.2	25963.7
22.5°	50040.4	47072.5	32097.5	23772.1	20006.8
25°	49037.2	44917.7	27896.9	17549.6	12335.5
27.5°	47877.8	42147.7	23957.1	10337.0	6295.5
30°	46650.5	38812.3	19373.5	5560.5	3822.7
32.5°	45412.7	35031.4	13708.7	3473.5	2167.9
35°	44021.3	31034.2	8129.8	1912.6	930.4
37.5°	42569.8	27370.7	4804.9	870.4	596.7
40°	40951.7	24022.3	3087.7	578.4	586.2
42.5°	39388.4	20900.6	1738.1	570.6	581.1
45°	37631.9	17484.3	799.9	578.4	575.8
47.5°	35815.7	13943.2	518.4	583.7	583.7
50°	33942.4	9969.7	515.9	596.7	581.1
52.5°	31964.6	6220.0	536.8	594.2	476.9
55°	29851.3	3601.1	547.1	495.0	221.6
57.5°	27662.5	2123.6	552.4	284.0	125.1
60°	25379.7	1175.1	531.5	211.0	117.3
62.5°	23026.8	560.2	419.5	198.2	114.6
65°	20569.5	380.5	286.5	182.3	117.3
67.5°	18018.6	294.3	226.6	172.0	119.9
70°	15465.0	218.8	206.0	172.0	117.3
72.5°	12869.8	148.6	172.0	174.5	117.3
75°	10237.8	88.6	117.3	153.8	122.4
77.5°	7629.5	54.6	91.1	158.9	148.6
80°	5135.8	46.8	96.4	148.6	117.3
82.5°	3014.9	41.8	93.9	114.6	93.9
85°	1276.8	34.0	62.4	93.9	78.1
87.5°	239.7	28.7	49.6	75.5	67.7
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)