

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: P731131

Luminaire Tested: **HBLED-LD5-60HE-N-CLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731131
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-L850
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: 56505.0 lumens
Efficiency: N/A
Efficacy: 159.2 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

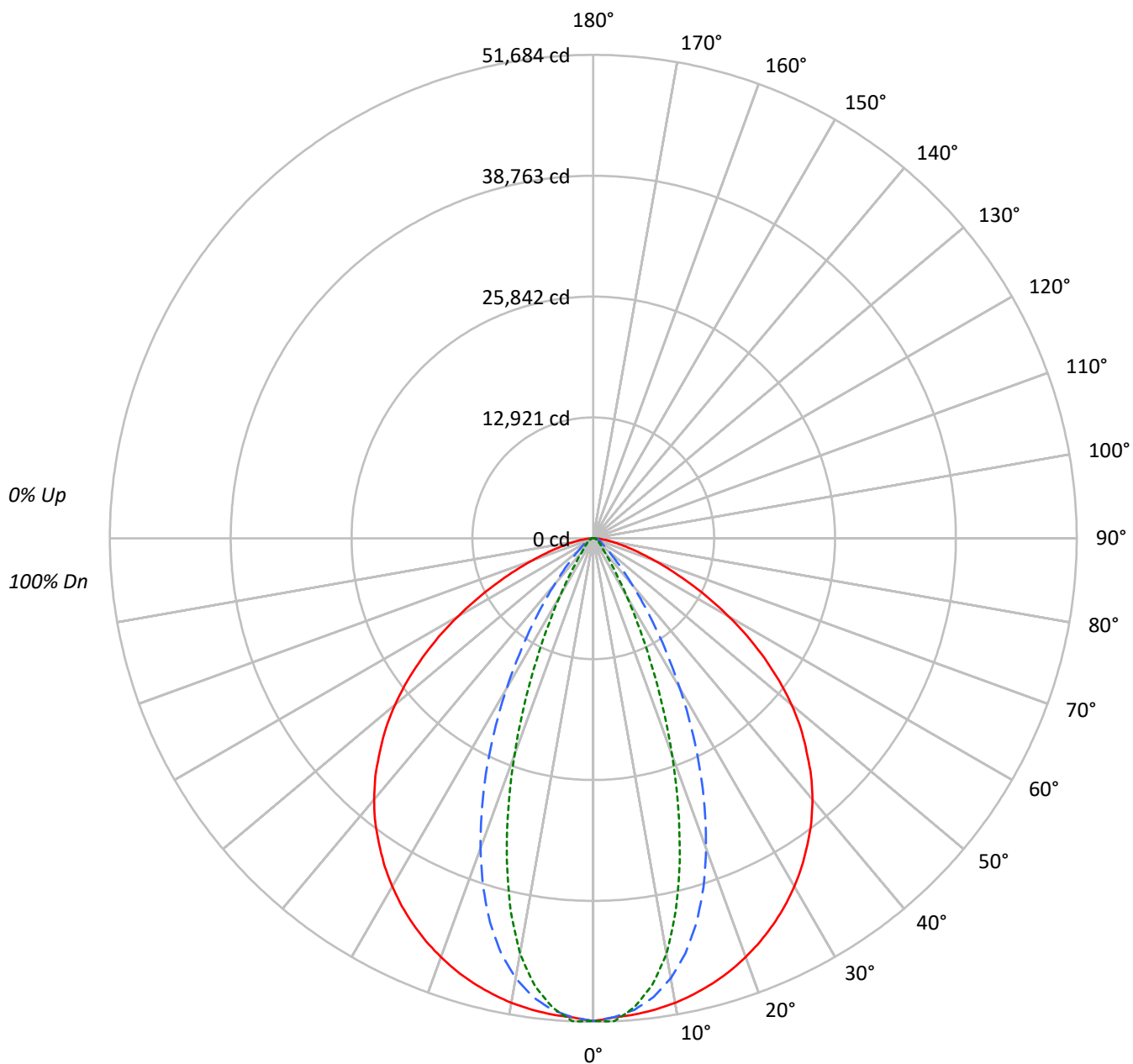
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	83334	83334	83334
5°	82833	82009	81577
10°	82694	78295	73883
15°	82361	71169	59668
20°	81867	60559	42290
25°	81134	47752	25552
30°	80149	34464	13132
35°	78702	22531	6558
40°	76836	13534	3827
45°	73644	8082	2862
50°	69459	5285	2403
55°	62864	4009	2097
60°	54023	3415	1913
65°	43454	3116	1807
70°	32737	3337	1797
75°	24080	3172	1848
80°	17617	3159	2023
85°	13196	3829	2618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4753.3	8.4
10°-20°	11825.2	20.9
20°-30°	13098.2	23.2
30°-40°	10493.9	18.6
40°-50°	7491.3	13.3
50°-60°	4811.8	8.5
60°-70°	2607.7	4.6
70°-80°	1114.6	2.0
80°-90°	309.1	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°	29676.6	52.5
0°-40°	40170.6	71.1
0°-60°	52473.7	92.9
0°-90°	56505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	56505.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	51613	51613	51613	51613	51613	
5°	51108	51298	50599	50439	50333	###
15°	49273	47731	42577	37627	35696	13902
25°	45543	40157	26804	17464	14343	20981
35°	39929	28881	11431	4610	3327	24965
45°	32252	16672	3540	1506	1253	24859
55°	22332	7454	1424	875	745	19902
65°	11374	3061	816	563	473	11390
75°	3860	1120	508	353	296	4289
85°	712	296	207	171	141	870
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	51613.1	51613.1	51613.1	51613.1	51613.1
2.5°	51273.4	51594.3	51248.8	51463.6	51683.8
5°	51107.6	51298.0	50599.1	50438.7	50332.9
7.5°	50819.3	50765.0	49452.2	48601.1	48190.5
10°	50438.7	49998.3	47755.6	45885.4	45064.4
12.5°	49895.1	48987.2	45458.5	42174.6	40782.8
15°	49272.6	47731.3	42576.9	37626.7	35696.5
17.5°	48527.7	46263.2	39132.6	32749.7	30202.4
20°	47646.9	44490.8	35245.3	27568.2	24613.1
22.5°	46662.9	42446.5	31083.2	22403.0	19233.4
25°	45542.8	40157.4	26804.4	17463.6	14342.7
27.5°	44333.2	37615.8	22549.9	13048.8	10202.4
30°	42990.1	34864.7	18485.7	9408.8	7043.7
32.5°	41524.9	31939.6	14709.9	6616.7	4817.2
35°	39929.2	28881.3	11431.1	4610.5	3327.4
37.5°	38295.3	25760.4	8633.9	3259.3	2386.9
40°	36454.9	22650.3	6421.2	2386.9	1815.8
42.5°	34478.6	19600.3	4752.0	1837.6	1470.7
45°	32252.2	16672.4	3539.6	1506.1	1253.3
47.5°	30093.8	13943.2	2688.6	1283.1	1090.1
50°	27652.6	11480.3	2104.1	1120.1	956.8
52.5°	25061.8	9313.6	1707.2	986.8	842.7
55°	22332.3	7454.0	1424.3	875.3	744.9
57.5°	19567.7	5904.4	1217.9	780.1	663.4
60°	16729.6	4722.0	1057.5	698.6	592.5
62.5°	13959.5	3776.1	924.2	628.0	530.2
65°	11374.2	3060.9	815.5	562.8	473.0
67.5°	8984.5	2419.5	761.2	505.6	426.9
70°	6934.7	1883.9	706.9	451.2	380.6
72.5°	5254.7	1446.4	625.4	402.3	337.1
75°	3860.1	1120.1	508.4	353.4	296.3
77.5°	2762.1	861.9	413.2	307.1	255.6
80°	1894.7	641.7	339.7	263.7	217.6
82.5°	1231.6	454.1	274.5	217.6	179.3
85°	712.3	296.3	206.7	171.3	141.3
87.5°	307.1	163.0	141.3	127.8	108.7
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)