

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: P731143

Luminaire Tested: **HBLED-LD5-60HE-W-AI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60HE-W-AI-UNV-L850
Description: 60000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55934.0 lumens
Efficiency: N/A
Efficacy: 157.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

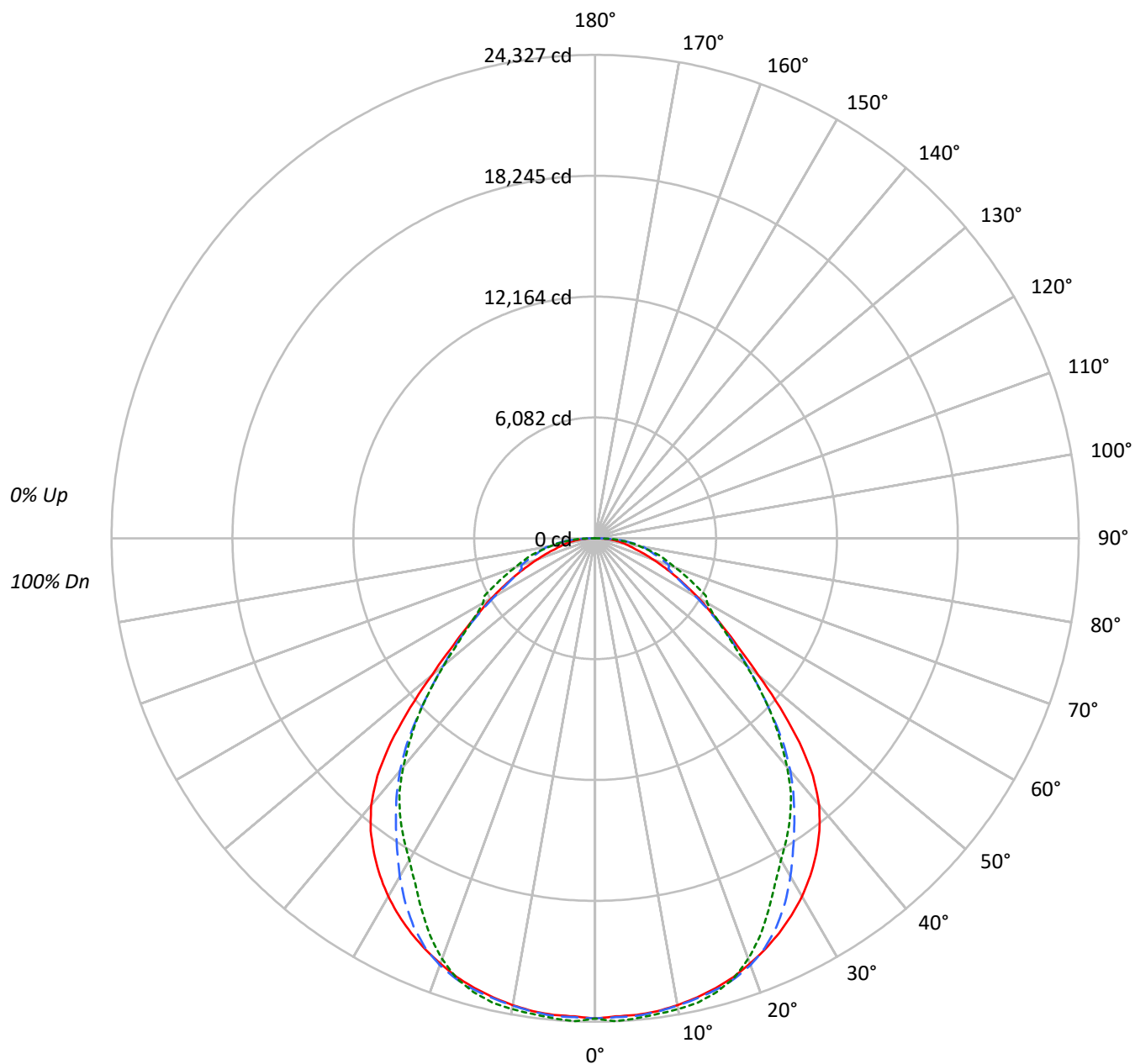
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39017	39017	39017
5°	39015	39099	39290
10°	39112	39161	39448
15°	39172	39318	39510
20°	39132	39278	38695
25°	39033	38449	36776
30°	38803	36635	34849
35°	38219	34433	33715
40°	36941	32194	31663
45°	33203	28748	28642
50°	26930	25040	24868
55°	22361	21946	21937
60°	19361	18795	21013
65°	16779	16674	21181
70°	14467	18705	20190
75°	12974	19171	21048
80°	13486	22567	21117
85°	15307	26008	24129



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2300.8	4.1
10°-20°	6645.0	11.9
20°-30°	9869.3	17.6
30°-40°	11204.4	20.0
40°-50°	10016.2	17.9
50°-60°	6925.3	12.4
60°-70°	4569.7	8.2
70°-80°	3083.0	5.5
80°-90°	1320.5	2.4
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°	18815.1	33.6
0°-40°	30019.5	53.7
0°-60°	46961.0	84.0
0°-90°	55934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	55934.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24165	24165	24165	24165	24165	
5°	24072	24220	24124	24223	24242	###
15°	23435	23547	23522	23653	23637	6615
25°	21910	22118	21582	20939	20643	10096
35°	19390	18982	17469	17215	17105	12091
45°	14541	13310	12590	12686	12544	11058
55°	7944	7252	7796	7687	7793	7215
65°	4392	3899	4364	5103	5544	4383
75°	2080	2616	3073	3284	3374	2271
85°	826	1149	1404	1412	1302	862
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24165.3	24165.3	24165.3	24165.3	24165.3
2.5°	24083.2	24233.7	24121.5	24225.5	24326.6
5°	24072.1	24219.9	24124.1	24222.6	24241.8
7.5°	24003.7	24140.5	24028.3	24124.1	24146.0
10°	23855.9	24017.4	23886.0	24033.8	24061.3
12.5°	23664.5	23828.7	23713.6	23916.1	23927.2
15°	23434.6	23546.8	23522.2	23653.4	23637.0
17.5°	23144.4	23273.3	23254.0	23286.7	23210.2
20°	22775.1	22920.0	22859.9	22709.4	22520.6
22.5°	22378.3	22553.4	22315.5	21935.1	21669.5
25°	21910.3	22118.3	21582.2	20939.1	20643.4
27.5°	21393.1	21579.2	20687.2	19899.2	19592.7
30°	20813.2	20892.3	19650.0	18900.3	18692.3
32.5°	20142.6	20027.8	18541.8	18046.5	17926.2
35°	19390.3	18982.4	17469.2	17214.7	17105.2
37.5°	18541.8	17795.0	16410.3	16292.6	16177.5
40°	17526.8	16423.8	15274.7	15198.1	15022.8
42.5°	16216.0	14932.5	14013.1	13922.8	13766.8
45°	14541.3	13309.8	12590.2	12686.0	12543.7
47.5°	12614.7	11681.8	11224.8	11487.5	11224.8
50°	10721.1	10094.7	9968.8	10206.9	9900.4
52.5°	9169.7	8606.0	8866.1	8907.0	8723.8
55°	7943.7	7251.5	7796.1	7686.6	7793.2
57.5°	6876.6	6102.1	6772.6	6646.7	7013.4
60°	5995.5	5125.3	5820.4	5793.0	6507.1
62.5°	5130.9	4435.8	4993.9	5396.2	6274.5
65°	4392.0	3899.4	4364.5	5103.4	5544.0
67.5°	3683.2	3497.1	3992.3	4402.8	4884.6
70°	3064.6	3160.5	3962.2	3885.7	4276.9
72.5°	2544.9	2870.6	3497.1	3510.8	3787.2
75°	2079.7	2616.1	3073.1	3283.8	3374.0
77.5°	1729.4	2372.5	2774.8	2848.7	2761.1
80°	1450.4	2090.5	2427.1	2394.4	2271.1
82.5°	1171.1	1584.5	1912.9	1943.0	1797.8
85°	826.3	1149.4	1403.9	1412.1	1302.5
87.5°	443.2	708.8	851.1	875.7	809.9
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)