

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: P731127

Luminaire Tested: **HBLED-LD5-60HE-N-CLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731127
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-L740
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: 58057.0 lumens
Efficiency: N/A
Efficacy: 163.5 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

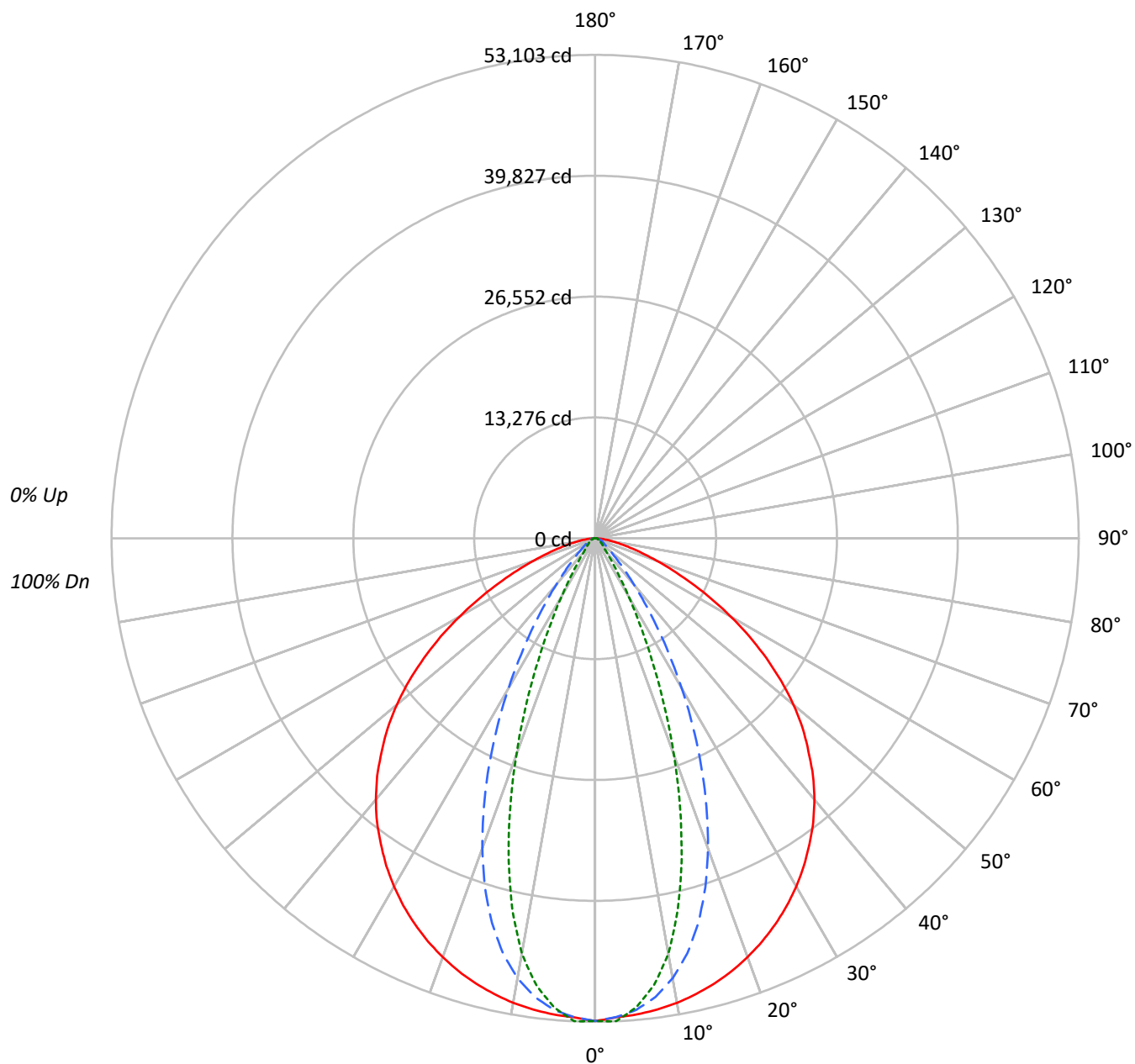
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	98	90	84	79	96	88	83	78	86	81	77		83	79	75		81
4	92	82	75	70	90	81	75	70	79	73	69		77	72	68		75
5	86	76	69	63	84	75	68	63	73	67	62		71	66	62		69
6	81	70	63	58	79	69	62	57	68	62	57		66	61	57		65
7	76	65	58	53	75	64	58	53	63	57	52		62	56	52		60
8	72	61	54	49	70	60	53	49	59	53	48		58	52	48		57
9	68	57	50	45	67	56	50	45	55	49	45		54	49	45		53
10	64	53	47	42	63	53	46	42	52	46	42		51	46	42		50

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	85623	85623	85623
5°	85108	84261	83818
10°	84965	80446	75912
15°	84623	73124	61307
20°	84116	62222	43452
25°	83363	49064	26253
30°	82351	35411	13493
35°	80864	23150	6739
40°	78946	13906	3932
45°	75666	8304	2941
50°	71367	5430	2469
55°	64591	4120	2155
60°	55507	3508	1966
65°	44648	3201	1857
70°	33636	3429	1846
75°	24742	3259	1899
80°	18101	3245	2079
85°	13559	3935	2688



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4883.8	8.4
10°-20°	12150.0	20.9
20°-30°	13457.9	23.2
30°-40°	10782.2	18.6
40°-50°	7697.1	13.3
50°-60°	4943.9	8.5
60°-70°	2679.3	4.6
70°-80°	1145.2	2.0
80°-90°	317.6	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°	30491.7	52.5
0°-40°	41273.9	71.1
0°-60°	53914.9	92.9
0°-90°	58057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	58057.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	53031	53031	53031	53031	53031	
5°	52511	52707	51989	51824	51715	###
15°	50626	49042	43746	38660	36677	14284
25°	46794	41260	27541	17943	14737	21557
35°	41026	29675	11745	4737	3419	25651
45°	33138	17130	3637	1548	1288	25542
55°	22946	7659	1464	899	765	20449
65°	11687	3145	838	578	486	11703
75°	3966	1151	522	363	304	4407
85°	732	304	212	176	145	894
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	53030.8	53030.8	53030.8	53030.8	53030.8
2.5°	52681.7	53011.4	52656.4	52877.1	53103.3
5°	52511.3	52707.0	51988.9	51824.1	51715.4
7.5°	52215.1	52159.3	50810.4	49936.1	49514.1
10°	51824.1	51371.6	49067.3	47145.7	46302.2
12.5°	51265.5	50332.7	46707.1	43333.0	41903.0
15°	50625.9	49042.3	43746.3	38660.2	36677.0
17.5°	49860.5	47533.9	40207.4	33649.2	31032.0
20°	48955.6	45712.8	36213.3	28325.4	25289.2
22.5°	47944.6	43612.4	31936.9	23018.3	19761.7
25°	46793.7	41260.4	27540.6	17943.3	14736.7
27.5°	45550.9	38649.0	23169.3	13407.2	10482.6
30°	44170.9	35822.3	18993.4	9667.3	7237.1
32.5°	42665.4	32816.9	15113.9	6798.5	4949.5
35°	41026.0	29674.6	11745.1	4737.1	3418.8
37.5°	39347.1	26467.9	8871.0	3348.9	2452.4
40°	37456.2	23272.4	6597.5	2452.4	1865.7
42.5°	35425.6	20138.7	4882.5	1888.0	1511.1
45°	33138.0	17130.3	3636.8	1547.5	1287.8
47.5°	30920.3	14326.2	2762.4	1318.3	1120.0
50°	28412.1	11795.6	2161.9	1150.9	983.1
52.5°	25750.2	9569.4	1754.0	1013.9	865.9
55°	22945.7	7658.8	1463.5	899.4	765.4
57.5°	20105.2	6066.6	1251.3	801.5	681.6
60°	17189.1	4851.7	1086.5	717.8	608.8
62.5°	14343.0	3879.8	949.6	645.2	544.7
65°	11686.6	3144.9	837.9	578.2	486.0
67.5°	9231.2	2485.9	782.1	519.5	438.7
70°	7125.2	1935.6	726.3	463.6	391.1
72.5°	5399.1	1486.1	642.6	413.4	346.4
75°	3966.1	1150.9	522.4	363.1	304.4
77.5°	2837.9	885.5	424.6	315.6	262.7
80°	1946.8	659.3	349.0	270.9	223.6
82.5°	1265.4	466.6	282.1	223.6	184.2
85°	731.9	304.4	212.4	176.0	145.1
87.5°	315.6	167.5	145.1	131.3	111.6
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)