

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: P731133

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731133
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-L740
Description: 60000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62749.0 lumens
Efficiency: N/A
Efficacy: 176.8 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

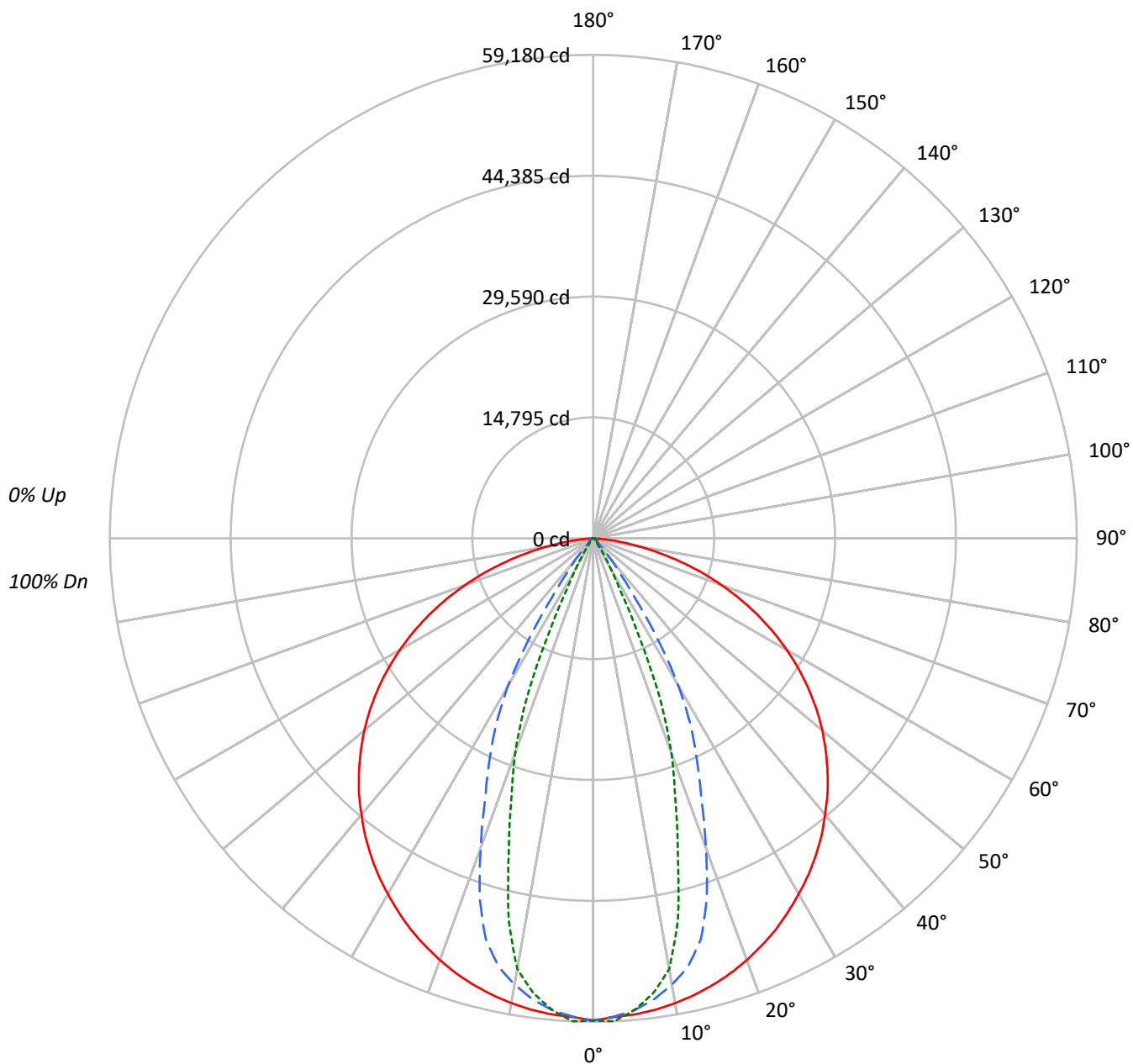
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P731133

CATALOG NUMBER: HBLED-LD5-60HE-N-UNV-L740

Luminous Intensity Polar Plot





TEST NUMBER: P731133

CATALOG NUMBER: HBLED-LD5-60HE-N-UNV-L740

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	95321	95321	95321
5°	94811	93973	93932
10°	94751	90962	87771
15°	94618	84980	66798
20°	94397	69276	48082
25°	94157	53565	23686
30°	93741	38930	7681
35°	93519	17271	1977
40°	93030	7014	1332
45°	92614	1969	1417
50°	91892	1397	1573
55°	90568	1660	672
60°	88332	1850	408
65°	84699	1180	483
70°	78687	1048	597
75°	68836	789	823
80°	51468	966	1176
85°	25495	1247	1558



TEST NUMBER: P731133

CATALOG NUMBER: HBLED-LD5-60HE-N-UNV-L740

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5478.7	8.7
10°-20°	13699.6	21.8
20°-30°	14838.7	23.6
30°-40°	10988.7	17.5
40°-50°	7914.7	12.6
50°-60°	4900.7	7.8
60°-70°	3013.9	4.8
70°-80°	1588.8	2.5
80°-90°	325.2	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°	34017.0	54.2
0°-40°	45005.7	71.7
0°-60°	57821.1	92.1
0°-90°	62749.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	62749.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	59037	59037	59037	59037	59037	
5°	58498	58714	57981	58023	57956	###
15°	56605	55291	50839	43234	39962	15979
25°	52853	48413	30068	18915	13295	24353
35°	47447	33449	8762	2061	1003	29683
45°	40560	18845	862	623	621	31280
55°	32174	3881	590	534	239	28722
65°	22170	410	309	196	126	21874
75°	11034	96	126	166	132	11655
85°	1376	37	67	101	84	###
90°	0	0	0	0	0	



TEST NUMBER: P731133

CATALOG NUMBER: HBLED-LD5-60HE-N-UNV-L740

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	59037.1	59037.1	59037.1	59037.1	59037.1
2.5°	58658.0	59031.7	58590.7	58919.3	59180.4
5°	58497.8	58714.1	57981.1	58023.2	57955.9
7.5°	58217.0	58166.5	56933.6	56394.4	56158.5
10°	57793.1	57458.7	55481.7	54355.5	53535.3
12.5°	57245.4	56498.3	53670.2	50089.3	47865.1
15°	56605.0	55290.6	50839.2	43233.9	39961.9
17.5°	55841.0	53979.1	46210.7	36235.0	33314.4
20°	54939.5	52515.8	40318.5	30828.8	27983.9
22.5°	53934.0	50735.2	34595.0	25621.8	21563.5
25°	52852.8	48412.7	30067.5	18915.1	13295.3
27.5°	51603.1	45427.3	25821.2	11141.3	6785.4
30°	50280.4	41832.2	20881.0	5993.2	4120.1
32.5°	48946.3	37757.2	14775.4	3743.7	2336.6
35°	47446.6	33449.0	8762.4	2061.4	1002.8
37.5°	45882.1	29500.4	5178.8	938.2	643.2
40°	44138.2	25891.5	3328.0	623.4	631.8
42.5°	42453.2	22526.9	1873.4	615.0	626.4
45°	40560.0	18844.8	862.2	623.4	620.7
47.5°	38602.5	15028.1	558.8	629.1	629.1
50°	36583.4	10745.4	556.1	643.2	626.4
52.5°	34451.7	6704.0	578.6	640.5	514.0
55°	32174.0	3881.3	589.7	533.5	238.8
57.5°	29814.9	2288.8	595.4	306.1	134.9
60°	27354.5	1266.5	572.9	227.4	126.5
62.5°	24818.5	603.8	452.1	213.6	123.5
65°	22170.0	410.1	308.8	196.5	126.5
67.5°	19420.7	317.2	244.2	185.4	129.2
70°	16668.3	235.8	222.0	185.4	126.5
72.5°	13871.2	160.1	185.4	188.1	126.5
75°	11034.4	95.5	126.5	165.8	131.9
77.5°	8223.2	58.9	98.2	171.2	160.1
80°	5535.4	50.5	103.9	160.1	126.5
82.5°	3249.5	45.0	101.2	123.5	101.2
85°	1376.2	36.6	67.3	101.2	84.1
87.5°	258.4	30.9	53.5	81.4	73.0
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)