

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: P731171

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731171
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-LD5-60SE-N-UNV-L835
Description: 60000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55637.0 lumens
Efficiency: N/A
Efficacy: 151.6 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

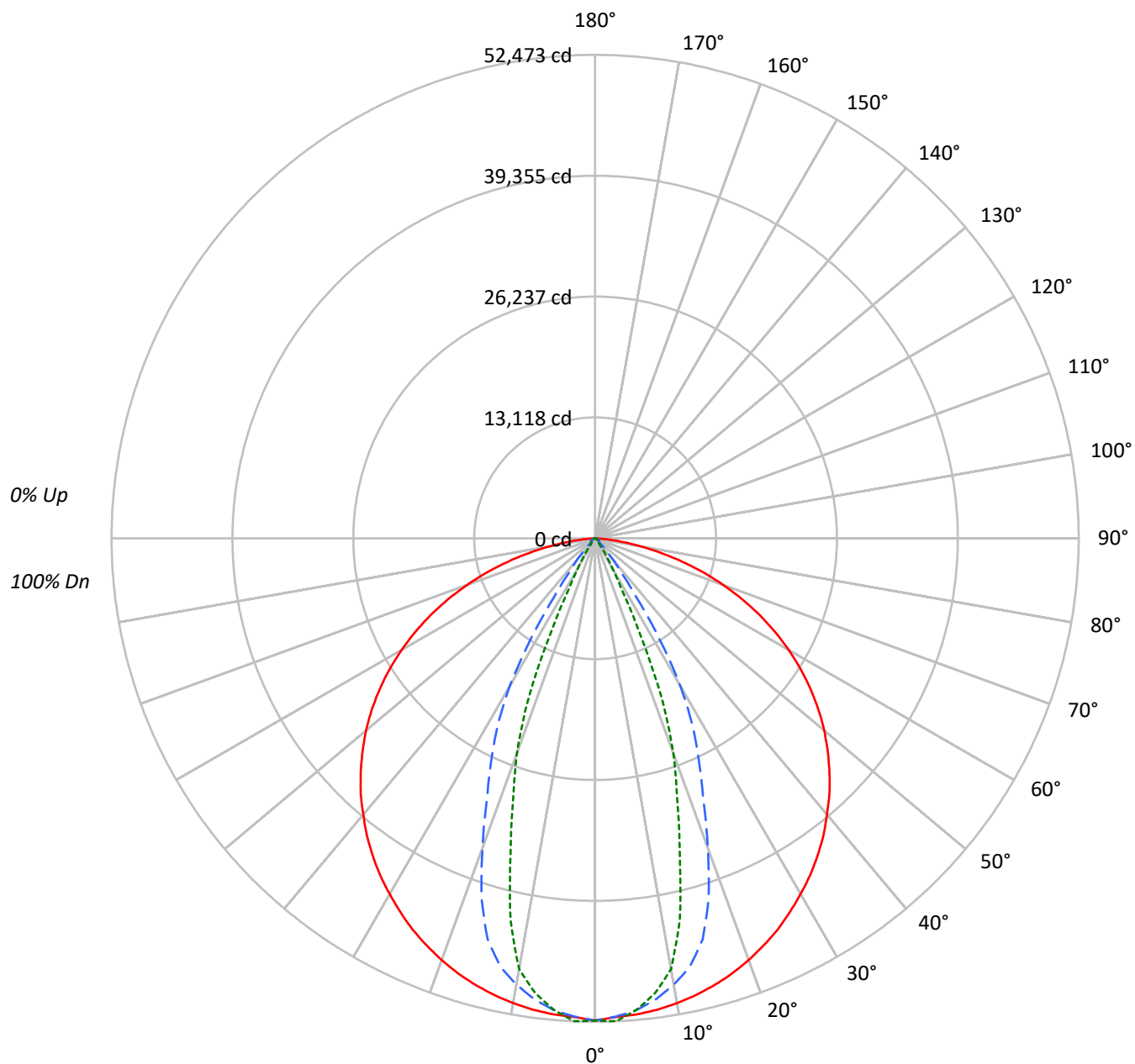
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P731171

CATALOG NUMBER: HBLED-LD5-60SE-N-UNV-L835

Luminous Intensity Polar Plot





TEST NUMBER: P731171

CATALOG NUMBER: HBLED-LD5-60SE-N-UNV-L835

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
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°	84517	84517	84517
5°	84065	83322	83286
10°	84012	80652	77823
15°	83894	75348	59227
20°	83698	61424	42633
25°	83486	47494	21001
30°	83116	34517	6811
35°	82920	15314	1752
40°	82486	6219	1181
45°	82117	1746	1257
50°	81477	1238	1395
55°	80303	1472	596
60°	78321	1640	362
65°	75100	1046	428
70°	69768	929	529
75°	61034	699	729
80°	45635	857	1042
85°	22605	1106	1382



TEST NUMBER: P731171

CATALOG NUMBER: HBLED-LD5-60SE-N-UNV-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4857.8	8.7
10°-20°	12146.8	21.8
20°-30°	13156.9	23.6
30°-40°	9743.2	17.5
40°-50°	7017.7	12.6
50°-60°	4345.3	7.8
60°-70°	2672.3	4.8
70°-80°	1408.7	2.5
80°-90°	288.3	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°	30161.5	54.2
0°-40°	39904.7	71.7
0°-60°	51267.7	92.1
0°-90°	55637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	55637.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	52346	52346	52346	52346	52346	
5°	51868	52059	51410	51447	51387	###
15°	50189	49024	45077	38334	35433	14168
25°	46862	42926	26660	16771	11788	21593
35°	42069	29658	7769	1828	889	26319
45°	35963	16709	764	553	550	27735
55°	28527	3441	523	473	212	25467
65°	19657	364	274	174	112	19395
75°	9784	85	112	147	117	10334
85°	1220	32	60	90	75	###
90°	0	0	0	0	0	



TEST NUMBER: P731171

CATALOG NUMBER: HBLED-LD5-60SE-N-UNV-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	52345.8	52345.8	52345.8	52345.8	52345.8
2.5°	52009.6	52341.0	51950.0	52241.4	52472.8
5°	51867.7	52059.4	51409.5	51446.8	51387.1
7.5°	51618.6	51573.9	50480.7	50002.6	49793.5
10°	51242.8	50946.3	49193.4	48194.8	47467.6
12.5°	50757.2	50094.8	47587.2	44412.2	42440.0
15°	50189.3	49024.0	45077.0	38333.8	35432.6
17.5°	49512.0	47861.0	40973.2	32128.1	29538.5
20°	48712.6	46563.6	35748.8	27334.6	24812.2
22.5°	47821.1	44984.9	30674.0	22717.8	19119.5
25°	46862.5	42925.6	26659.7	16771.2	11788.4
27.5°	45754.4	40278.5	22894.6	9878.6	6016.3
30°	44581.6	37091.0	18514.3	5313.9	3653.2
32.5°	43398.7	33477.8	13100.8	3319.4	2071.8
35°	42069.0	29657.9	7769.3	1827.8	889.1
37.5°	40681.8	26156.8	4591.8	831.8	570.3
40°	39135.5	22957.0	2950.8	552.7	560.2
42.5°	37641.5	19973.7	1661.0	545.3	555.4
45°	35962.9	16708.9	764.5	552.7	550.3
47.5°	34227.3	13324.8	495.4	557.8	557.8
50°	32437.1	9527.5	493.0	570.3	555.4
52.5°	30547.0	5944.1	513.0	567.9	455.7
55°	28527.4	3441.4	522.9	473.1	211.7
57.5°	26435.7	2029.4	527.9	271.4	119.6
60°	24254.2	1123.0	508.0	201.6	112.1
62.5°	22005.5	535.4	400.9	189.4	109.5
65°	19657.3	363.6	273.8	174.2	112.1
67.5°	17219.5	281.3	216.6	164.3	114.5
70°	14779.1	209.1	196.8	164.3	112.1
72.5°	12299.0	142.0	164.3	166.8	112.1
75°	9783.8	84.7	112.1	147.0	116.9
77.5°	7291.1	52.2	87.1	151.8	142.0
80°	4908.0	44.8	92.2	142.0	112.1
82.5°	2881.2	39.9	89.8	109.5	89.8
85°	1220.2	32.5	59.7	89.8	74.6
87.5°	229.1	27.4	47.4	72.2	64.7
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)