

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: P#

Luminaire Tested: **HBLED-LD5-60SE-W-FLI-UNV-L735-ED4-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60SE-W-FLI-UNV-L735-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

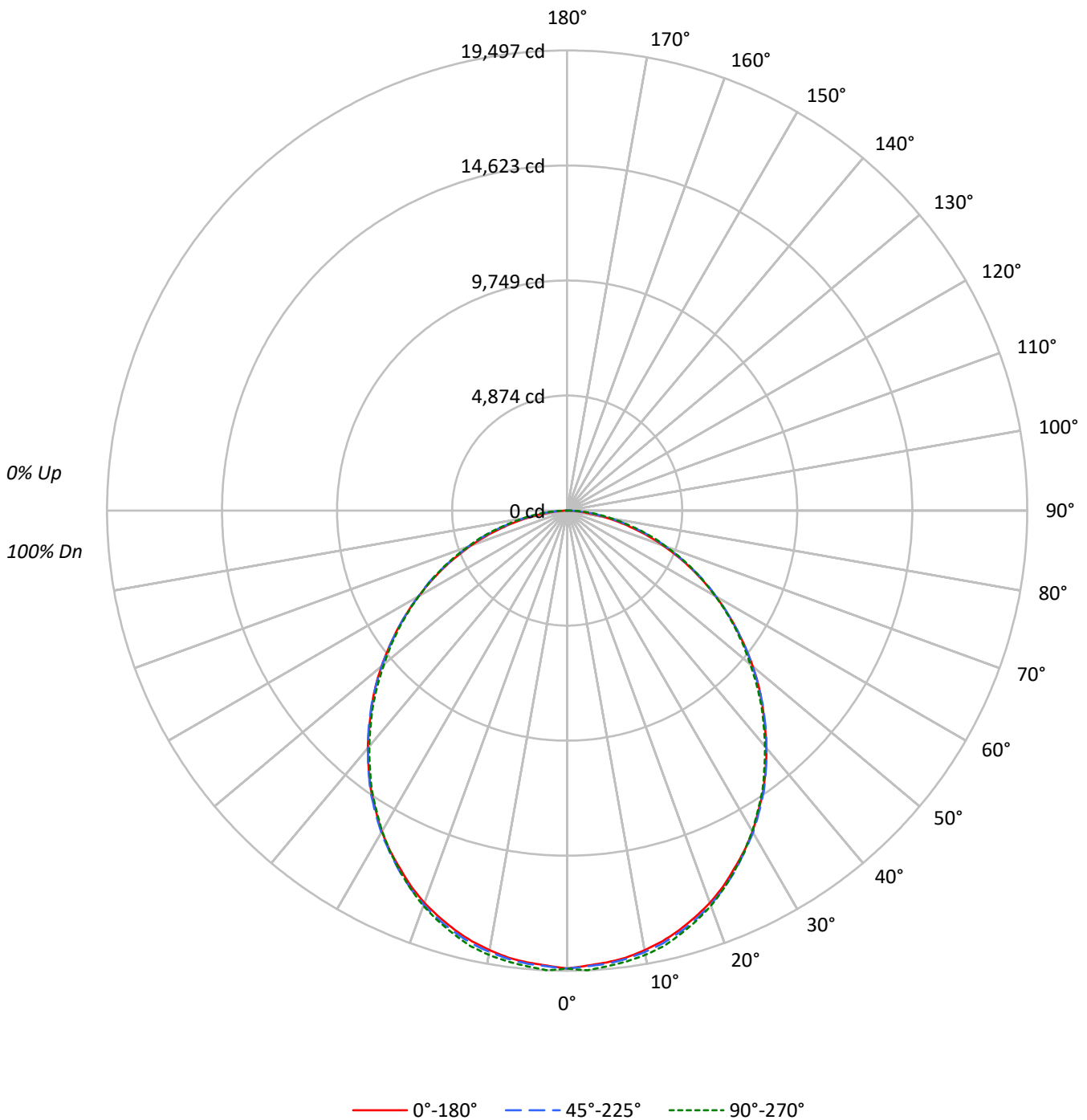
Lumens per Lamp: N/A
Luminaire Lumens: 50684.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 386
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: P#
CATALOG NUMBER: HBLED-LD5-60SE-W-FLI-UNV-L735-ED4-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60SE-W-FLI-UNV-L735-ED4-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26107	26107	26107
5°	25958	26032	26180
10°	25840	25945	26113
15°	25613	25752	25878
20°	25323	25445	25519
25°	24854	24995	24959
30°	24396	24462	24362
35°	23792	23853	23701
40°	23077	23077	22899
45°	22270	22331	22103
50°	21505	21469	21200
55°	20574	20577	20392
60°	19577	19601	19524
65°	18452	18636	18684
70°	17043	17509	17528
75°	15061	16037	16287
80°	12352	14045	14838
85°	8573	11791	13334



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60SE-W-FLI-UNV-L735-ED4-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1835.1	3.6
10°-20°	5220.4	10.3
20°-30°	7757.8	15.3
30°-40°	9070.9	17.9
40°-50°	9043.9	17.8
50°-60°	7846.8	15.5
60°-70°	5795.8	11.4
70°-80°	3245.0	6.4
80°-90°	865.8	1.7
90°-100°	2.6	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°	14813.2	29.2
0°-40°	23884.1	47.1
0°-60°	40774.8	80.4
0°-90°	50681.4	100.0
90°-120°	2.6	0.0
90°-150°	2.6	0.0
90°-180°	3.0	0.0
0°-180°	50684.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19403	19403	19403	19403	19403	
5°	19219	19340	19274	19359	19384	###
15°	18388	18516	18488	18576	18578	5186
25°	16742	16876	16837	16874	16812	7719
35°	14485	14612	14522	14519	14429	9048
45°	11704	11828	11736	11688	11616	9035
55°	8771	8831	8772	8757	8693	7843
65°	5796	5852	5854	5883	5868	5732
75°	2897	2984	3085	3107	3133	3085
85°	555	671	764	832	864	674
90°	0	12	15	33	31	22
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60SE-W-FLI-UNV-L735-ED4-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19403.3	19403.3	19403.3	19403.3	19403.3
2.5°	19297.2	19411.9	19331.7	19408.2	19497.0
5°	19219.4	19340.3	19273.7	19358.8	19383.5
7.5°	19105.9	19223.1	19159.0	19244.1	19270.0
10°	18913.4	19040.5	18989.9	19086.2	19113.3
12.5°	18688.8	18808.5	18775.2	18887.5	18906.0
15°	18387.8	18516.1	18487.7	18576.5	18577.8
17.5°	18054.6	18175.5	18154.5	18223.6	18221.2
20°	17685.7	17815.2	17770.8	17846.1	17822.6
22.5°	17248.9	17387.1	17331.5	17394.5	17335.2
25°	16741.7	16876.2	16836.7	16873.7	16812.1
27.5°	16250.6	16374.0	16292.6	16337.0	16271.6
30°	15702.8	15807.6	15744.7	15759.5	15680.6
32.5°	15087.0	15211.7	15135.2	15132.7	15048.8
35°	14484.9	14612.0	14521.9	14519.4	14429.4
37.5°	13818.6	13937.0	13830.9	13837.1	13732.2
40°	13138.7	13241.1	13138.7	13133.8	13037.5
42.5°	12400.8	12536.5	12442.8	12453.9	12325.5
45°	11703.7	11828.3	11735.7	11687.6	11616.0
47.5°	11009.0	11063.3	10986.8	10974.4	10873.2
50°	10273.6	10314.3	10256.3	10241.5	10128.0
52.5°	9513.5	9583.8	9509.8	9490.0	9414.7
55°	8770.6	8831.1	8771.9	8757.1	8692.9
57.5°	8022.9	8101.9	8041.4	8026.6	7974.8
60°	7275.1	7298.6	7283.8	7306.0	7255.4
62.5°	6532.3	6586.6	6603.9	6597.7	6558.2
65°	5795.7	5852.4	5853.7	5883.3	5868.5
67.5°	5041.8	5115.8	5136.8	5167.6	5181.2
70°	4332.3	4389.0	4450.7	4469.2	4455.7
72.5°	3617.8	3709.1	3778.2	3794.3	3852.3
75°	2897.2	2983.6	3084.8	3107.0	3132.9
77.5°	2228.4	2343.2	2434.5	2464.1	2496.2
80°	1594.2	1721.3	1812.6	1853.3	1915.0
82.5°	1046.4	1175.9	1268.5	1309.2	1384.4
85°	555.3	671.2	763.8	831.7	863.7
87.5°	164.1	262.8	315.9	335.6	364.0
90°	0.0	12.3	14.8	33.3	30.8
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60SE-W-FLI-UNV-L735-ED4-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)