

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-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 (P23760)
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-UNV-L735-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

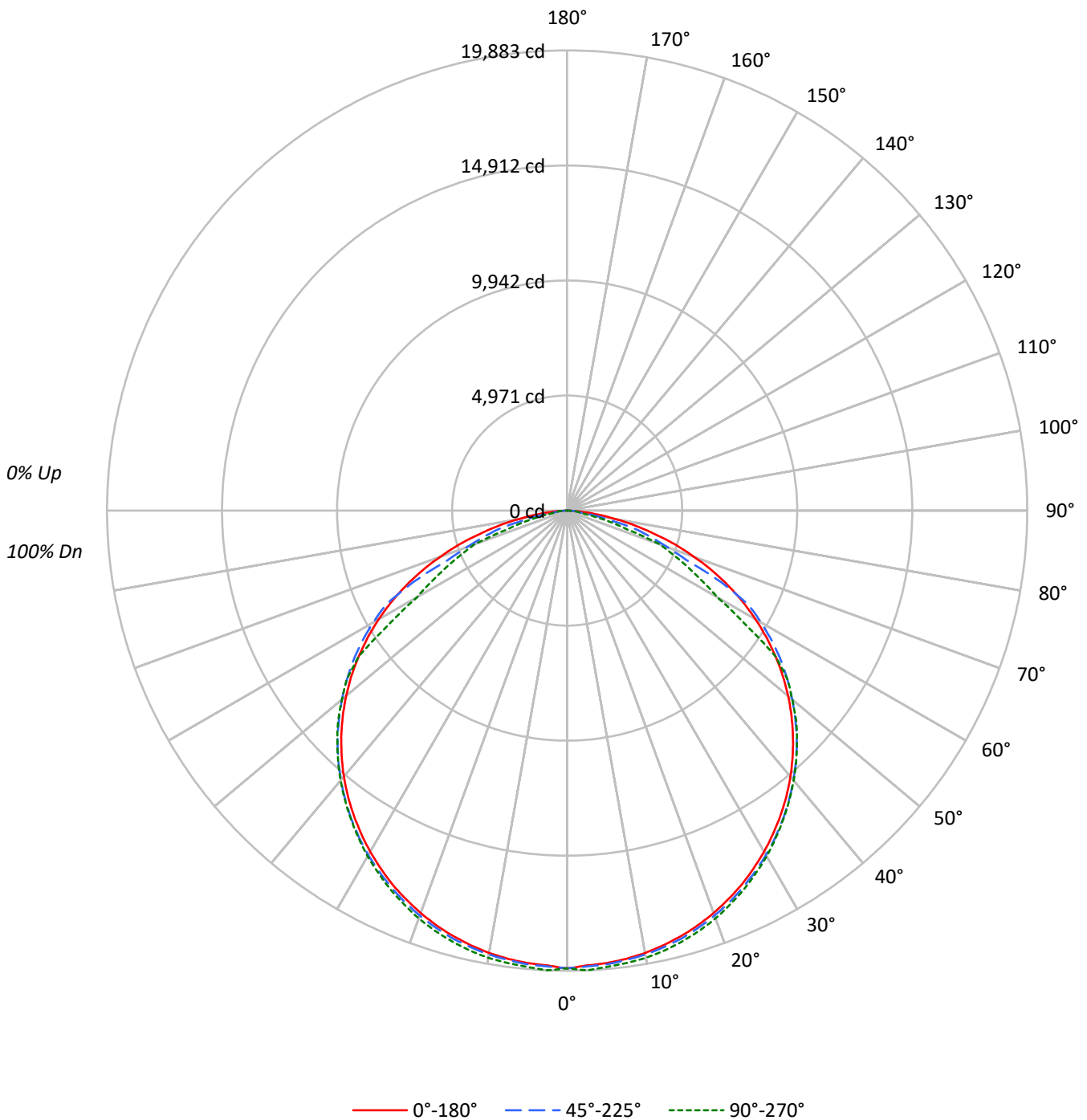
Lumens per Lamp: N/A
Luminaire Lumens: 57098.0 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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-UNV-L735-ED4-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60SE-W-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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26611	26611	26611
5°	26502	26575	26726
10°	26517	26611	26811
15°	26510	26652	26837
20°	26496	26666	26853
25°	26486	26676	26824
30°	26440	26698	26797
35°	26407	26710	26746
40°	26359	26709	26751
45°	26260	26697	26729
50°	26103	26584	26579
55°	25798	26443	25787
60°	25319	26053	20176
65°	24474	23448	18179
70°	22929	18041	16754
75°	20303	15729	10441
80°	16719	9260	4667
85°	11018	5673	6113



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1876.8	3.3
10°-20°	5414.9	9.5
20°-30°	8301.7	14.5
30°-40°	10181.2	17.8
40°-50°	10810.7	18.9
50°-60°	9874.3	17.3
60°-70°	6876.4	12.0
70°-80°	3207.2	5.6
80°-90°	554.8	1.0
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°	15593.4	27.3
0°-40°	25774.6	45.1
0°-60°	46459.6	81.4
0°-90°	57098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	57098.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19778	19778	19778	19778	19778	
5°	19622	19759	19676	19771	19788	###
15°	19031	19164	19133	19249	19266	5374
25°	17841	17998	17969	18102	18069	8222
35°	16077	16262	16262	16371	16283	10060
45°	13800	14009	14030	14120	14047	10643
55°	10998	11218	11273	11292	10993	9822
65°	7687	7925	7365	5857	5710	7585
75°	3905	4152	3026	2096	2008	4175
85°	714	470	368	394	396	922
90°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19778.2	19778.2	19778.2	19778.2	19778.2
2.5°	19673.9	19799.6	19716.6	19806.7	19882.6
5°	19621.7	19759.3	19676.3	19771.1	19787.7
7.5°	19536.4	19666.8	19590.9	19695.2	19721.3
10°	19408.3	19536.4	19477.1	19600.4	19624.1
12.5°	19235.2	19365.6	19320.6	19455.7	19472.3
15°	19031.3	19164.1	19133.3	19249.4	19266.0
17.5°	18791.8	18929.3	18893.8	19017.1	19028.9
20°	18504.9	18654.3	18623.5	18768.1	18753.9
22.5°	18182.4	18341.3	18317.6	18462.2	18419.5
25°	17841.0	17997.5	17969.0	18101.8	18068.6
27.5°	17440.2	17613.3	17587.2	17715.3	17663.1
30°	17018.1	17193.6	17184.1	17300.3	17248.2
32.5°	16562.9	16750.2	16740.7	16854.5	16773.9
35°	16076.8	16261.7	16261.7	16370.8	16283.1
37.5°	15562.2	15749.5	15751.9	15856.3	15773.3
40°	15007.4	15194.7	15206.5	15306.1	15230.3
42.5°	14424.0	14628.0	14637.5	14727.6	14656.4
45°	13800.4	14009.1	14030.4	14120.5	14047.0
47.5°	13148.3	13359.4	13378.3	13475.6	13423.4
50°	12470.2	12674.1	12700.2	12780.8	12697.8
52.5°	11754.1	11962.7	11998.3	12048.1	12010.2
55°	10997.7	11218.2	11272.7	11291.7	10992.9
57.5°	10215.2	10440.4	10492.6	10056.3	9095.9
60°	9408.9	9631.8	9681.6	8180.7	7497.8
62.5°	8569.5	8787.7	8842.2	6779.3	6561.1
65°	7687.4	7924.6	7365.0	5856.9	5709.9
67.5°	6781.6	7025.9	5570.0	5019.8	4932.1
70°	5828.4	6075.0	4585.9	4280.0	4258.7
72.5°	4913.1	5095.7	3763.1	3243.8	2731.6
75°	3905.4	4152.0	3025.7	2096.1	2008.4
77.5°	3028.0	2617.8	1825.8	1536.5	1211.7
80°	2157.8	1749.9	1195.1	637.9	602.3
82.5°	1368.2	1142.9	469.5	481.4	502.7
85°	713.7	469.5	367.5	393.6	396.0
87.5°	230.0	201.6	220.5	218.2	215.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)