

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-CLI-UNV-L750-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 (P23766)
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-CLI-UNV-L750-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

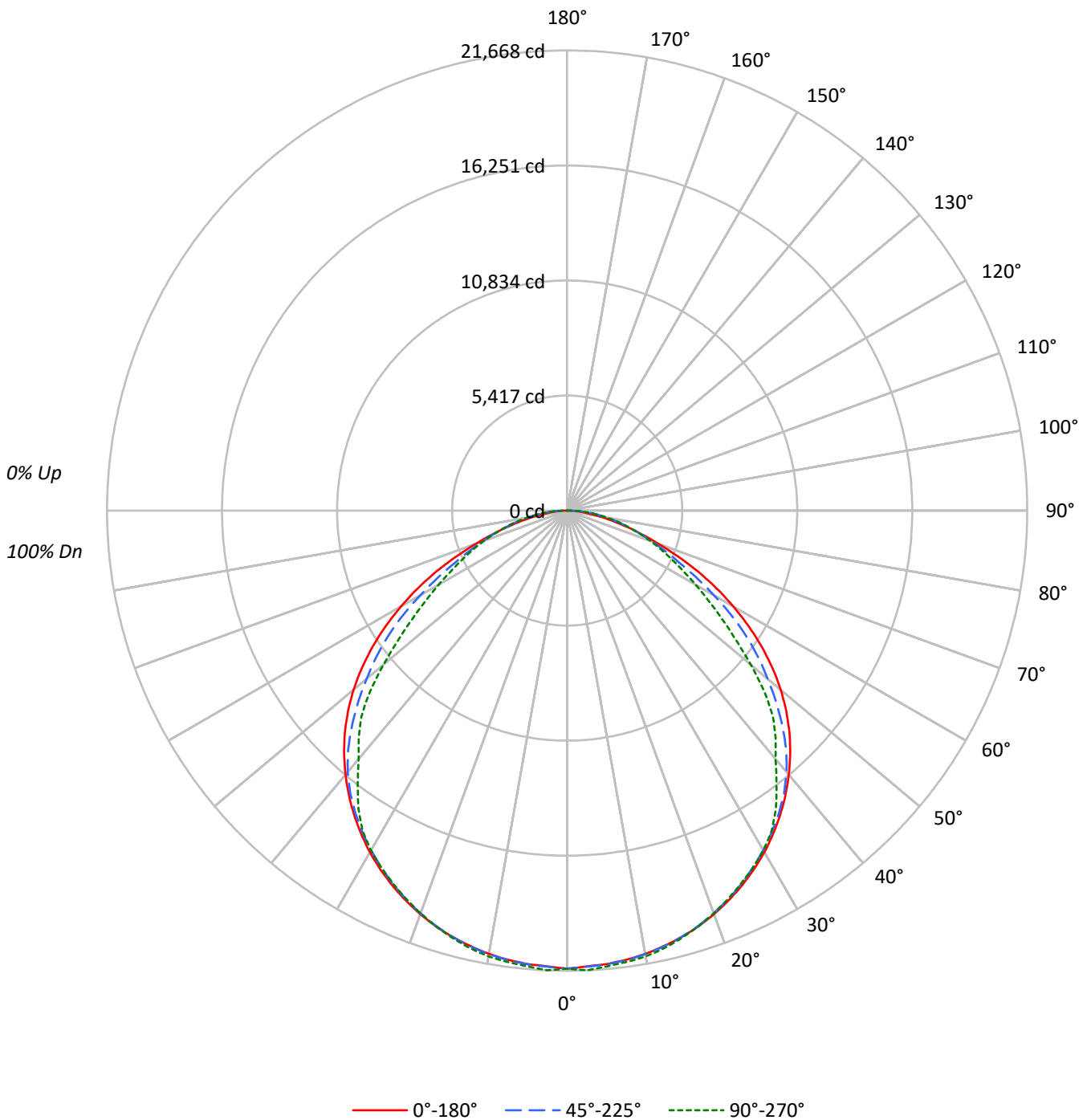
Lumens per Lamp: N/A
Luminaire Lumens: 57951.0 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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-CLI-UNV-L750-ED4-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60SE-W-CLI-UNV-L750-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	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29022	29022	29022
5°	28944	28965	29094
10°	28960	28974	29126
15°	28964	28960	29028
20°	28956	28890	28897
25°	28912	28804	28770
30°	28865	28692	28708
35°	28730	28552	28148
40°	28525	28234	26811
45°	28163	27262	26069
50°	27486	25811	23610
55°	26234	24139	20877
60°	24346	21538	18828
65°	21640	18648	17312
70°	17959	16665	16319
75°	14525	15252	15440
80°	11537	14586	14526
85°	9034	15669	14950



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60SE-W-CLI-UNV-L750-ED4-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2045.6	3.5
10°-20°	5883.8	10.2
20°-30°	8971.8	15.5
30°-40°	10854.6	18.7
40°-50°	10994.8	19.0
50°-60°	9087.4	15.7
60°-70°	6002.1	10.4
70°-80°	3129.7	5.4
80°-90°	981.2	1.7
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°	16901.2	29.2
0°-40°	27755.9	47.9
0°-60°	47838.0	82.5
0°-90°	57951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	57951.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21570	21570	21570	21570	21570	
5°	21430	21559	21445	21539	21541	###
15°	20793	20899	20790	20855	20840	5872
25°	19475	19552	19402	19452	19379	8980
35°	17491	17515	17383	17359	17137	10941
45°	14801	14762	14327	13882	13700	11397
55°	11184	11018	10290	9291	8900	9968
65°	6797	6600	5857	5477	5438	6714
75°	2794	2843	2934	2973	2970	3044
85°	585	754	1015	1007	968	710
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60SE-W-CLI-UNV-L750-ED4-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21569.7	21569.7	21569.7	21569.7	21569.7
2.5°	21479.1	21605.9	21499.8	21593.0	21668.1
5°	21429.9	21559.3	21445.4	21538.6	21541.2
7.5°	21334.1	21463.5	21347.0	21440.2	21437.6
10°	21196.8	21318.5	21207.2	21318.5	21318.5
12.5°	21010.4	21129.5	21020.7	21124.3	21108.8
15°	20792.9	20899.0	20790.3	20855.0	20839.5
17.5°	20536.5	20632.3	20510.6	20565.0	20533.9
20°	20223.2	20311.2	20176.6	20246.5	20181.8
22.5°	19871.0	19953.9	19816.7	19868.5	19796.0
25°	19474.9	19552.5	19402.4	19451.6	19379.1
27.5°	19047.6	19117.5	18949.2	19008.8	18951.8
30°	18578.9	18612.6	18467.6	18545.3	18477.9
32.5°	18055.9	18076.6	17949.7	18019.6	17905.7
35°	17491.4	17514.7	17382.6	17359.3	17136.6
37.5°	16888.1	16898.4	16774.1	16564.4	16196.7
40°	16240.7	16235.5	16075.0	15590.8	15264.5
42.5°	15549.3	15546.7	15264.5	14713.0	14526.5
45°	14801.0	14762.2	14327.1	13881.8	13700.5
47.5°	13998.3	13956.9	13348.3	12993.6	12581.9
50°	13130.8	13058.3	12330.7	11846.5	11279.4
52.5°	12196.1	12084.7	11344.2	10562.2	10026.2
55°	11183.6	11017.9	10290.3	9290.8	8899.8
57.5°	10129.7	9883.7	9176.8	8203.2	7884.7
60°	9047.4	8772.9	8003.8	7203.7	6996.6
62.5°	7933.9	7662.0	6877.4	6274.1	6160.2
65°	6797.2	6600.4	5857.2	5476.6	5437.7
67.5°	5631.9	5562.0	4994.9	4800.7	4785.2
70°	4565.1	4552.2	4236.3	4137.9	4148.2
72.5°	3648.5	3632.9	3586.3	3537.1	3539.7
75°	2794.0	2843.2	2933.8	2972.6	2970.0
77.5°	2084.5	2185.5	2377.1	2454.7	2441.8
80°	1488.9	1639.1	1882.5	1955.0	1874.7
82.5°	991.7	1149.7	1437.1	1447.5	1382.7
85°	585.2	753.5	1015.0	1007.3	968.4
87.5°	290.0	453.1	608.5	582.6	556.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)