

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-LD5-60HE-W-FLI-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 (P26703)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60HE-W-FLI-UNV-L750-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

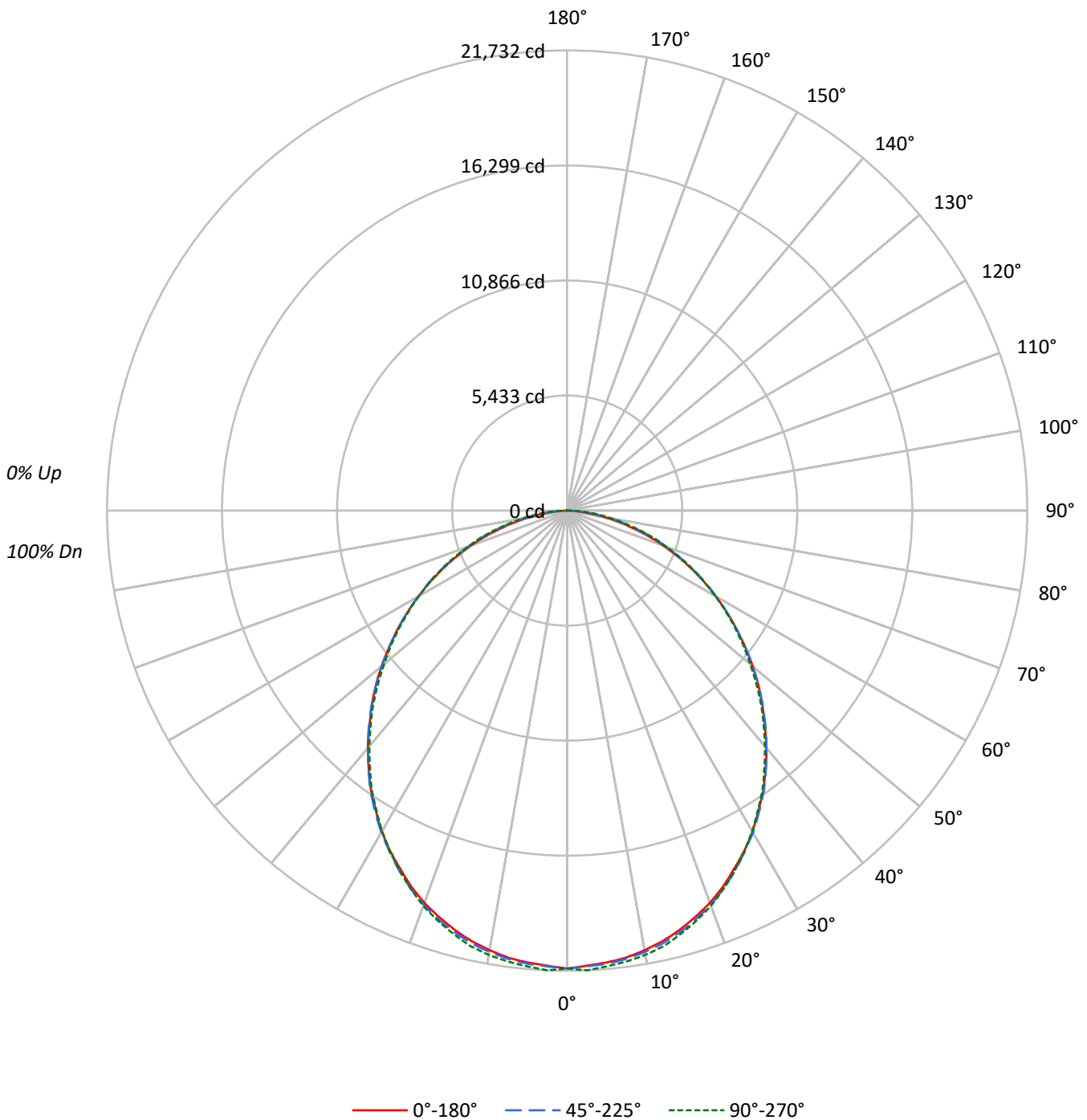
Lumens per Lamp: N/A
Luminaire Lumens: 56494.0 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 369
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-LD5-60HE-W-FLI-UNV-L750-ED4-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60HE-W-FLI-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	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°	29100	29100	29100
5°	28934	29016	29181
10°	28803	28919	29107
15°	28549	28705	28844
20°	28226	28362	28445
25°	27704	27861	27820
30°	27193	27266	27154
35°	26519	26587	26418
40°	25722	25722	25524
45°	24823	24891	24637
50°	23970	23930	23630
55°	22932	22936	22729
60°	21821	21847	21762
65°	20567	20773	20825
70°	18997	19516	19538
75°	16788	17875	18153
80°	13769	15655	16540
85°	9554	13142	14863



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60HE-W-FLI-UNV-L750-ED4-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2045.4	3.6
10°-20°	5818.8	10.3
20°-30°	8647.1	15.3
30°-40°	10110.7	17.9
40°-50°	10080.6	17.8
50°-60°	8746.3	15.5
60°-70°	6460.1	11.4
70°-80°	3617.0	6.4
80°-90°	965.1	1.7
90°-100°	2.9	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°	16511.3	29.2
0°-40°	26622.0	47.1
0°-60°	45448.9	80.4
0°-90°	56491.1	100.0
90°-120°	2.9	0.0
90°-150°	2.9	0.0
90°-180°	3.0	0.0
0°-180°	56494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21628	21628	21628	21628	21628	
5°	21423	21557	21483	21578	21606	###
15°	20496	20639	20607	20706	20707	5780
25°	18661	18811	18767	18808	18739	8603
35°	16145	16287	16187	16184	16083	10085
45°	13045	13184	13081	13027	12948	10071
55°	9776	9843	9777	9761	9689	8742
65°	6460	6523	6525	6558	6541	6389
75°	3229	3326	3438	3463	3492	3439
85°	619	748	851	927	963	752
90°	0	14	16	37	34	25
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-LD5-60HE-W-FLI-UNV-L750-ED4-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21627.5	21627.5	21627.5	21627.5	21627.5
2.5°	21509.2	21637.1	21547.7	21633.0	21732.0
5°	21422.6	21557.4	21483.1	21578.0	21605.5
7.5°	21296.0	21426.7	21355.2	21450.1	21479.0
10°	21081.5	21223.1	21166.8	21274.0	21304.3
12.5°	20831.2	20964.6	20927.4	21052.6	21073.2
15°	20495.6	20638.6	20607.0	20706.0	20707.4
17.5°	20124.2	20259.0	20235.6	20312.7	20309.9
20°	19713.0	19857.4	19807.9	19891.8	19865.7
22.5°	19226.1	19380.2	19318.3	19388.4	19322.4
25°	18660.9	18810.8	18766.8	18808.0	18739.2
27.5°	18113.5	18251.0	18160.2	18209.7	18136.8
30°	17502.8	17619.7	17549.6	17566.1	17478.0
32.5°	16816.5	16955.4	16870.1	16867.4	16773.9
35°	16145.3	16287.0	16186.6	16183.8	16083.4
37.5°	15402.6	15534.7	15416.4	15423.3	15306.4
40°	14644.8	14759.0	14644.8	14639.3	14532.0
42.5°	13822.3	13973.6	13869.1	13881.5	13738.4
45°	13045.3	13184.2	13081.0	13027.4	12947.6
47.5°	12270.9	12331.5	12246.2	12232.4	12119.7
50°	11451.2	11496.6	11432.0	11415.5	11288.9
52.5°	10604.0	10682.4	10599.9	10577.9	10494.0
55°	9776.0	9843.4	9777.4	9760.9	9689.4
57.5°	8942.6	9030.6	8963.2	8946.7	8888.9
60°	8109.1	8135.2	8118.7	8143.5	8087.1
62.5°	7281.1	7341.7	7360.9	7354.0	7310.0
65°	6460.1	6523.3	6524.7	6557.7	6541.2
67.5°	5619.7	5702.2	5725.6	5760.0	5775.1
70°	4828.9	4892.1	4960.9	4981.5	4966.4
72.5°	4032.5	4134.3	4211.3	4229.2	4293.9
75°	3229.3	3325.6	3438.4	3463.2	3492.0
77.5°	2483.9	2611.8	2713.6	2746.6	2782.3
80°	1777.0	1918.6	2020.4	2065.8	2134.6
82.5°	1166.3	1310.7	1413.9	1459.3	1543.2
85°	618.9	748.2	851.3	927.0	962.8
87.5°	182.9	293.0	352.1	374.1	405.7
90°	0.0	13.8	16.5	37.1	34.4
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-LD5-60HE-W-FLI-UNV-L750-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)