

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-WG-UNV-L740-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60SE-W-WG-UNV-L740-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

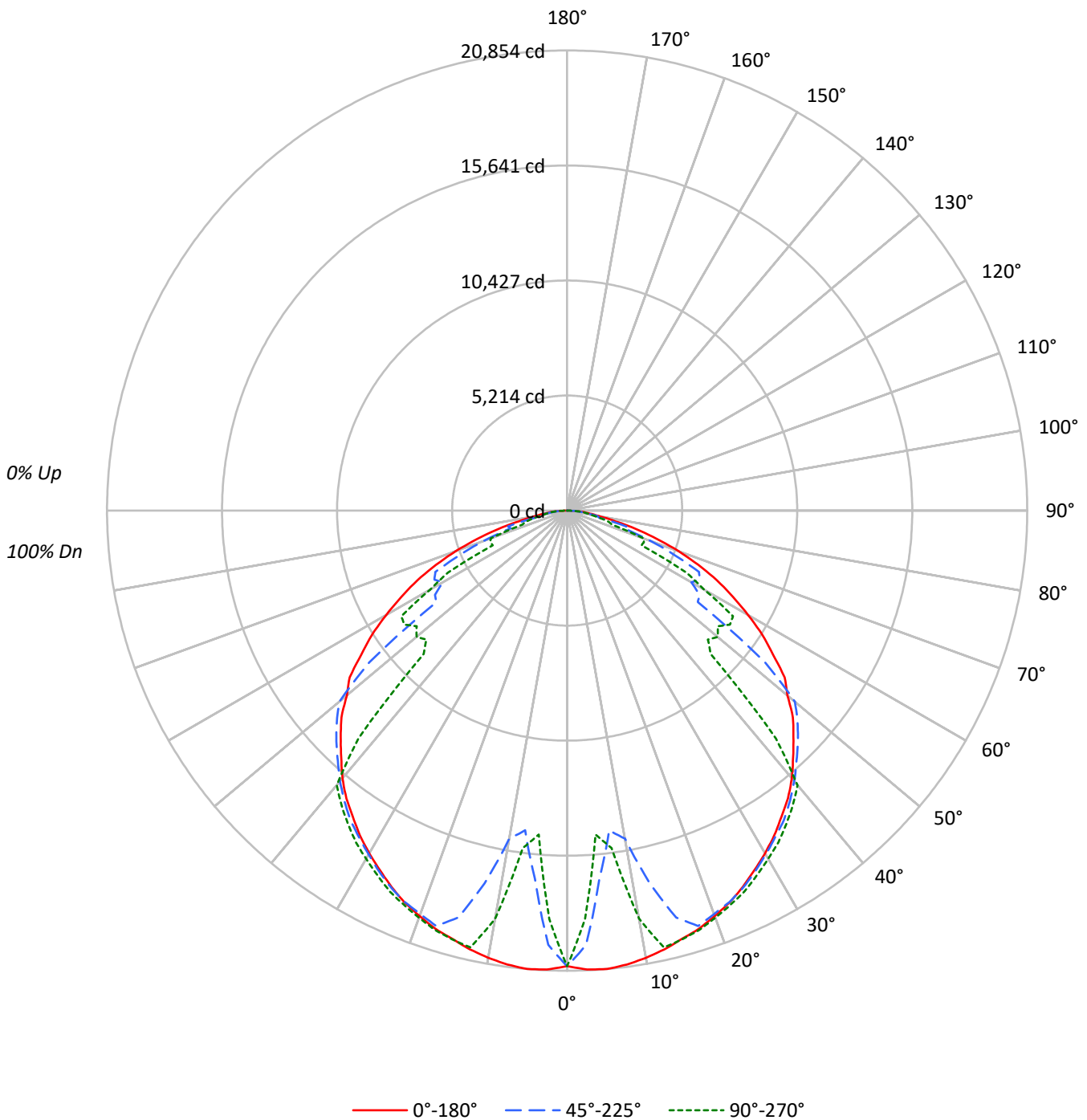
Lumens per Lamp: N/A
Luminaire Lumens: 54698.0 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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-WG-UNV-L740-ED4-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60SE-W-WG-UNV-L740-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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27780	27780	27780
5°	28166	22628	19900
10°	28117	20636	25665
15°	27993	26597	28017
20°	27993	27866	28113
25°	27943	28005	28262
30°	27862	27954	28315
35°	27818	28126	28455
40°	27821	28125	28528
45°	27604	28144	17489
50°	27291	28200	18640
55°	26715	16957	21127
60°	25485	17479	19346
65°	23879	20986	11837
70°	21085	15899	14510
75°	16800	14452	10062
80°	11573	10445	8646
85°	11090	9642	9147



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60SE-W-WG-UNV-L740-ED4-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1651.0	3.0
10°-20°	5172.4	9.5
20°-30°	8509.7	15.6
30°-40°	10699.8	19.6
40°-50°	10493.8	19.2
50°-60°	8694.7	15.9
60°-70°	6132.5	11.2
70°-80°	2675.6	4.9
80°-90°	668.5	1.2
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°	15333.1	28.0
0°-40°	26032.9	47.6
0°-60°	45221.4	82.7
0°-90°	54698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	54698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20647	20647	20647	20647	20647	
5°	20854	19410	16753	15191	14734	###
15°	20096	13956	19094	20175	20114	5683
25°	18822	17222	18864	18990	19037	8676
35°	16936	16926	17124	17237	17324	10611
45°	14507	14551	14791	13100	9191	11198
55°	11389	11761	7229	8219	9006	10190
65°	7500	7942	6592	5071	3718	7375
75°	3232	3168	2780	1817	1936	3466
85°	718	639	625	598	592	745
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60SE-W-WG-UNV-L740-ED4-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20646.7	20646.7	20646.7	20646.7	20646.7
2.5°	20817.1	20385.0	19698.7	18834.6	18528.5
5°	20854.1	19409.8	16753.4	15190.6	14733.9
7.5°	20747.9	17639.7	14605.5	14933.9	15417.8
10°	20580.1	16084.3	15104.2	17770.5	18785.2
12.5°	20365.3	14701.8	17303.9	20074.0	20276.4
15°	20096.2	13956.2	19093.8	20175.2	20113.5
17.5°	19869.0	14393.2	19735.7	19972.7	19928.3
20°	19550.6	15264.7	19461.7	19651.8	19634.5
22.5°	19229.6	16296.7	19202.5	19338.2	19338.2
25°	18822.3	17222.5	18864.2	18990.1	19037.0
27.5°	18375.4	17755.7	18442.1	18545.8	18629.7
30°	17933.5	17832.3	17992.7	18126.1	18224.8
32.5°	17466.9	17427.4	17553.3	17694.0	17819.9
35°	16936.1	16926.2	17123.7	17237.3	17323.7
37.5°	16437.4	16402.8	16585.5	16743.5	16810.2
40°	15839.9	15839.9	16012.7	16173.2	16242.3
42.5°	15158.5	15254.8	15388.1	15553.5	14008.1
45°	14506.8	14551.2	14790.7	13099.5	9191.4
47.5°	13879.7	13936.5	14163.6	8421.1	8650.7
50°	13037.8	13294.6	13472.3	8396.4	8905.0
52.5°	12423.1	12534.2	11309.7	8312.5	8598.9
55°	11388.7	11761.4	7228.7	8218.7	9006.2
57.5°	10504.8	10776.4	7107.7	8421.1	8910.0
60°	9470.4	9885.1	6495.5	8124.9	7189.2
62.5°	8477.9	8872.9	6781.8	6394.2	6088.1
65°	7500.3	7942.2	6591.7	5071.0	3718.0
67.5°	6428.8	6016.5	5258.6	3572.4	3760.0
70°	5359.8	4201.9	4041.5	3994.5	3688.4
72.5°	4261.2	3066.3	2683.6	2997.1	2145.4
75°	3231.7	3167.5	2779.9	1817.0	1935.6
77.5°	2241.7	2286.1	1488.7	1772.6	1471.4
80°	1493.6	1293.7	1348.0	1130.7	1115.9
82.5°	1034.4	1056.7	886.3	859.1	871.5
85°	718.4	639.4	624.6	597.5	592.5
87.5°	239.5	279.0	259.2	234.5	249.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)