

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-WG-UNV-L850-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-LD5-60HE-W-WG-UNV-L850-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

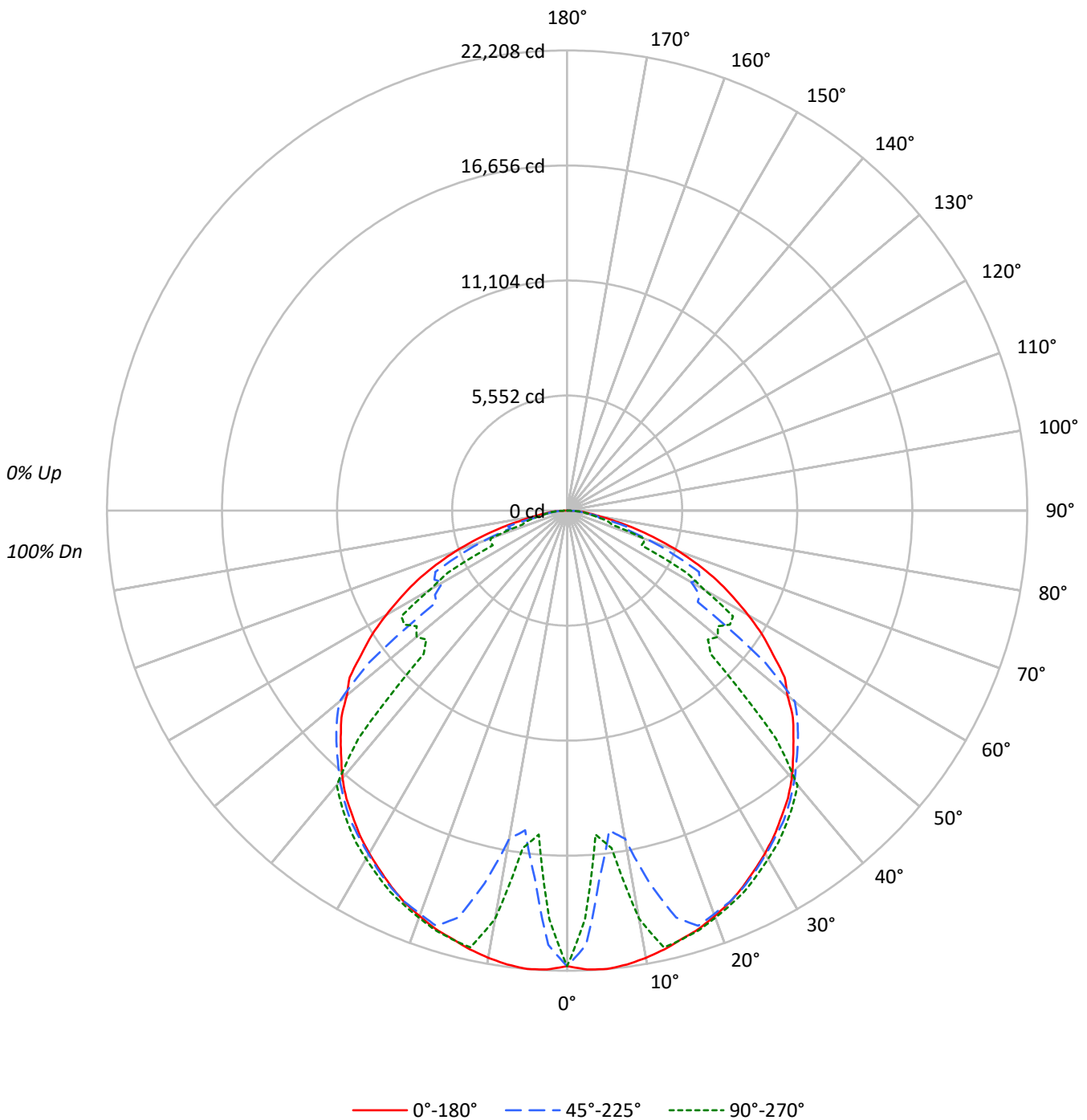
Lumens per Lamp: N/A
Luminaire Lumens: 58249.0 lumens
Efficiency: N/A
Efficacy: 157.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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-WG-UNV-L850-ED4-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60HE-W-WG-UNV-L850-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°	29583	29583	29583
5°	29995	24097	21192
10°	29943	21976	27331
15°	29810	28323	29836
20°	29811	29675	29939
25°	29757	29824	30097
30°	29671	29769	30153
35°	29624	29952	30302
40°	29628	29951	30380
45°	29396	29971	18625
50°	29063	30031	19850
55°	28450	18058	22498
60°	27139	18614	20602
65°	25429	22349	12606
70°	22454	16931	15452
75°	17891	15390	10715
80°	12325	11123	9207
85°	11811	10269	9741



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60HE-W-WG-UNV-L850-ED4-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1758.2	3.0
10°-20°	5508.2	9.5
20°-30°	9062.1	15.6
30°-40°	11394.4	19.6
40°-50°	11175.1	19.2
50°-60°	9259.1	15.9
60°-70°	6530.7	11.2
70°-80°	2849.3	4.9
80°-90°	711.9	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°	16328.5	28.0
0°-40°	27723.0	47.6
0°-60°	48157.2	82.7
0°-90°	58249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	58249.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21987	21987	21987	21987	21987	
5°	22208	20670	17841	16177	15690	###
15°	21401	14862	20333	21485	21419	6052
25°	20044	18341	20089	20223	20273	9239
35°	18036	18025	18235	18356	18448	11300
45°	15448	15496	15751	13950	9788	11925
55°	12128	12525	7698	8752	9591	10851
65°	7987	8458	7020	5400	3959	7853
75°	3442	3373	2960	1935	2061	3691
85°	765	681	665	636	631	794
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60HE-W-WG-UNV-L850-ED4-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21987.1	21987.1	21987.1	21987.1	21987.1
2.5°	22168.5	21708.4	20977.5	20057.3	19731.3
5°	22207.9	20669.9	17841.0	16176.8	15690.4
7.5°	22094.9	18784.9	15553.7	15903.4	16418.7
10°	21916.1	17128.5	16084.8	18924.2	20004.8
12.5°	21687.4	15656.2	18427.3	21377.2	21592.7
15°	21400.8	14862.3	20333.4	21484.9	21419.2
17.5°	21158.9	15327.6	21017.0	21269.4	21222.0
20°	20819.8	16255.7	20725.1	20927.6	20909.2
22.5°	20478.0	17354.6	20449.1	20593.7	20593.7
25°	20044.2	18340.6	20088.9	20223.0	20272.9
27.5°	19568.3	18908.4	19639.3	19749.7	19839.1
30°	19097.7	18989.9	19160.8	19302.8	19408.0
32.5°	18600.8	18558.8	18692.9	18842.7	18976.8
35°	18035.6	18025.1	18235.4	18356.3	18448.3
37.5°	17504.5	17467.7	17662.2	17830.5	17901.5
40°	16868.3	16868.3	17052.3	17223.2	17296.8
42.5°	16142.6	16245.2	16387.1	16563.3	14917.5
45°	15448.5	15495.9	15750.9	13950.0	9788.1
47.5°	14780.8	14841.2	15083.1	8967.8	9212.3
50°	13884.2	14157.7	14347.0	8941.5	9483.1
52.5°	13229.6	13347.9	12043.9	8852.2	9157.1
55°	12128.0	12525.0	7698.0	8752.3	9590.9
57.5°	11186.8	11476.0	7569.2	8967.8	9488.4
60°	10085.2	10526.9	6917.1	8652.3	7655.9
62.5°	9028.3	9449.0	7222.1	6809.4	6483.3
65°	7987.2	8457.8	7019.7	5400.2	3959.4
67.5°	6846.2	6407.1	5600.0	3804.3	4004.1
70°	5707.8	4474.7	4303.8	4253.9	3927.9
72.5°	4537.8	3265.3	2857.8	3191.7	2284.7
75°	3441.5	3373.1	2960.4	1935.0	2061.2
77.5°	2387.2	2434.5	1585.3	1887.7	1566.9
80°	1590.6	1377.6	1435.5	1204.1	1188.3
82.5°	1101.6	1125.3	943.8	914.9	928.1
85°	765.1	680.9	665.2	636.2	631.0
87.5°	255.0	297.1	276.1	249.8	265.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)