

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

Luminaire Equipment: Sample No. Condition Description

Summary

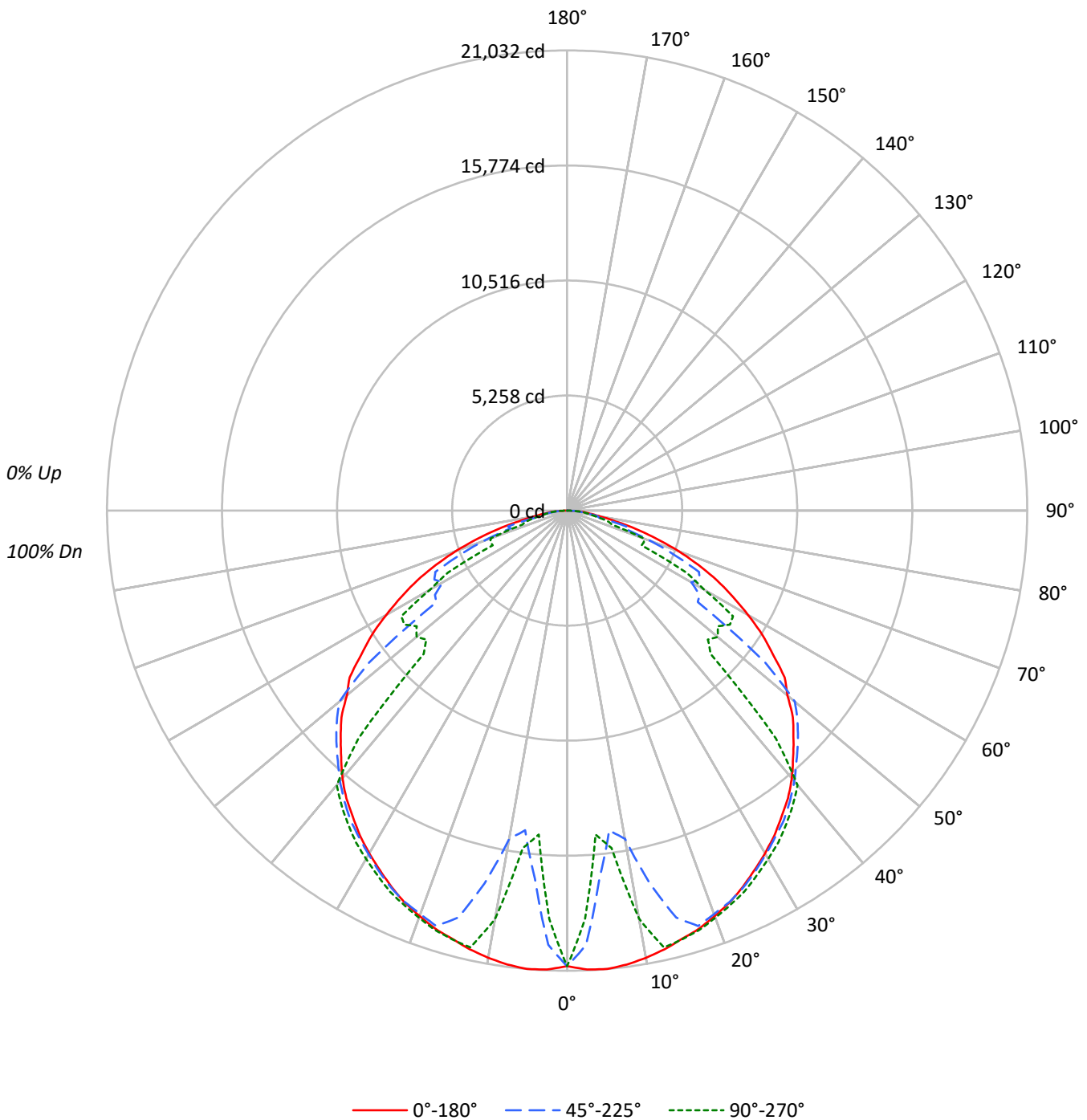
Lumens per Lamp: N/A
Luminaire Lumens: 55166.0 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	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	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28018	28018	28018
5°	28407	22821	20070
10°	28358	20813	25885
15°	28233	26824	28257
20°	28233	28104	28354
25°	28182	28245	28504
30°	28100	28193	28557
35°	28056	28367	28698
40°	28060	28366	28772
45°	27840	28385	17639
50°	27524	28442	18800
55°	26944	17102	21308
60°	25703	17629	19511
65°	24083	21166	11939
70°	21266	16035	14634
75°	16944	14575	10148
80°	11672	10534	8721
85°	11186	9726	9226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1665.1	3.0
10°-20°	5216.7	9.5
20°-30°	8582.5	15.6
30°-40°	10791.4	19.6
40°-50°	10583.6	19.2
50°-60°	8769.1	15.9
60°-70°	6185.0	11.2
70°-80°	2698.5	4.9
80°-90°	674.2	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°	15464.3	28.0
0°-40°	26255.6	47.6
0°-60°	45608.3	82.7
0°-90°	55166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	55166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20823	20823	20823	20823	20823	
5°	21032	19576	16897	15321	14860	###
15°	20268	14076	19257	20348	20286	5731
25°	18983	17370	19026	19153	19200	8750
35°	17081	17071	17270	17385	17472	10702
45°	14631	14676	14917	13212	9270	11294
55°	11486	11862	7290	8289	9083	10277
65°	7564	8010	6648	5114	3750	7438
75°	3259	3195	2804	1833	1952	3495
85°	725	645	630	603	598	752
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20823.4	20823.4	20823.4	20823.4	20823.4
2.5°	20995.2	20559.4	19867.2	18995.8	18687.0
5°	21032.5	19575.9	16896.7	15320.6	14860.0
7.5°	20925.5	17790.6	14730.5	15061.6	15549.7
10°	20756.1	16222.0	15233.5	17922.6	18946.0
12.5°	20539.5	14827.6	17452.0	20245.7	20449.9
15°	20268.1	14075.6	19257.2	20347.8	20285.5
17.5°	20039.0	14516.4	19904.6	20143.6	20098.8
20°	19717.8	15395.3	19628.2	19819.9	19802.5
22.5°	19394.1	16436.1	19366.8	19503.7	19503.7
25°	18983.3	17369.8	19025.6	19152.6	19199.9
27.5°	18532.6	17907.7	18599.9	18704.4	18789.1
30°	18086.9	17984.8	18146.7	18281.1	18380.7
32.5°	17616.3	17576.5	17703.5	17845.4	17972.4
35°	17081.0	17071.0	17270.2	17384.8	17471.9
37.5°	16578.0	16543.2	16727.4	16886.8	16954.0
40°	15975.5	15975.5	16149.8	16311.6	16381.3
42.5°	15288.2	15385.3	15519.8	15686.6	14127.9
45°	14630.9	14675.7	14917.2	13211.6	9270.0
47.5°	13998.4	14055.7	14284.8	8493.2	8724.8
50°	13149.4	13408.3	13587.6	8468.3	8981.2
52.5°	12529.4	12641.4	11406.4	8383.6	8672.5
55°	11486.1	11862.1	7290.5	8289.0	9083.3
57.5°	10594.7	10868.6	7168.5	8493.2	8986.2
60°	9551.4	9969.7	6551.0	8194.4	7250.7
62.5°	8550.5	8948.8	6839.9	6448.9	6140.2
65°	7564.4	8010.1	6648.1	5114.3	3749.9
67.5°	6483.8	6068.0	5303.6	3602.9	3792.2
70°	5405.7	4237.9	4076.0	4028.7	3720.0
72.5°	4297.6	3092.5	2706.6	3022.8	2163.8
75°	3259.3	3194.6	2803.7	1832.6	1952.1
77.5°	2260.9	2305.7	1501.4	1787.8	1484.0
80°	1506.4	1304.7	1359.5	1140.4	1125.5
82.5°	1043.3	1065.7	893.9	866.5	878.9
85°	724.6	644.9	630.0	602.6	597.6
87.5°	241.5	281.4	261.4	236.5	251.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)