

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-UNV-L835-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 (P23760)
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-UNV-L835-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

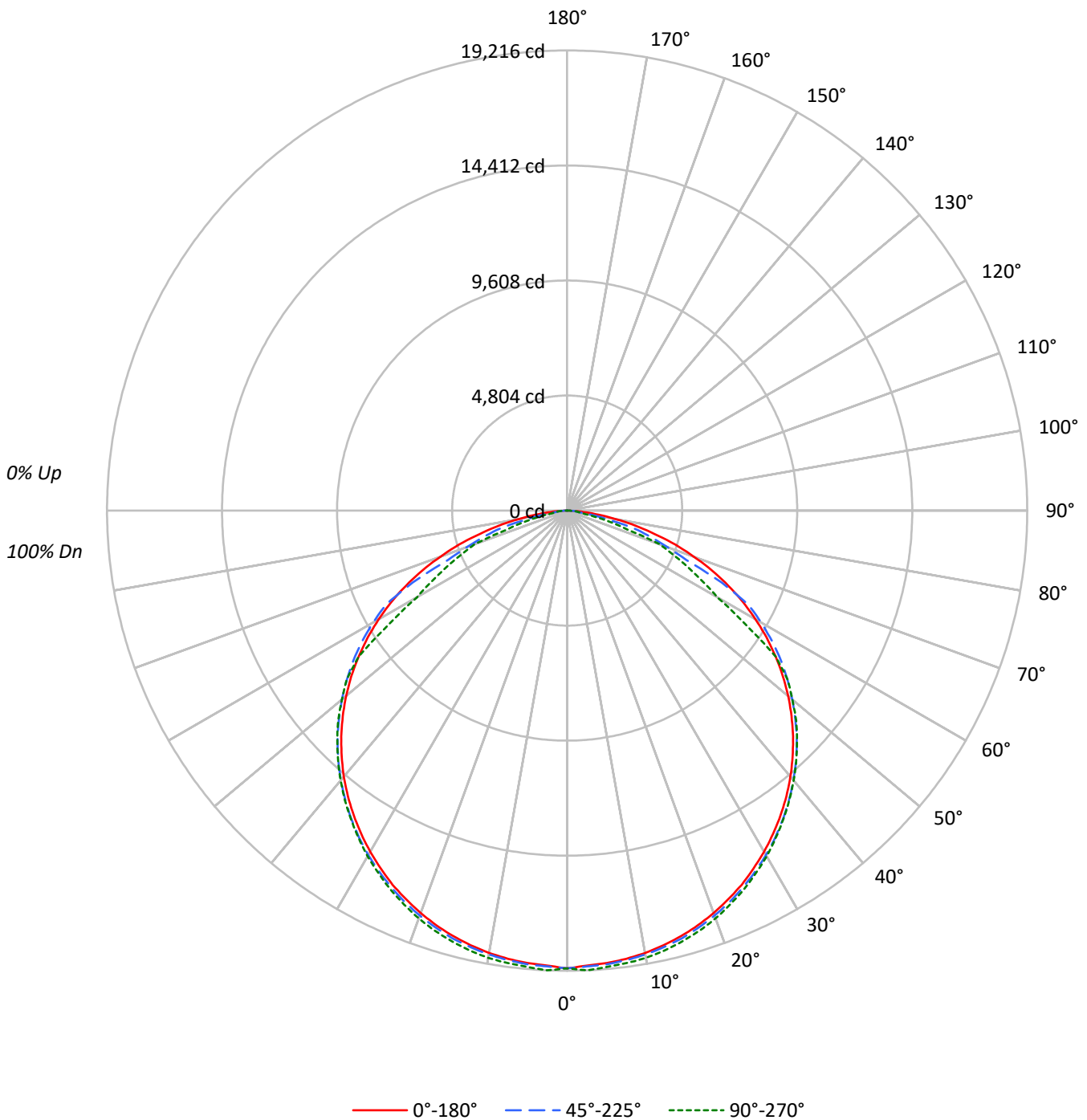
Lumens per Lamp: N/A
Luminaire Lumens: 55184.0 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25719	25719	25719
5°	25613	25685	25830
10°	25628	25718	25913
15°	25621	25758	25937
20°	25608	25772	25952
25°	25599	25782	25925
30°	25554	25803	25899
35°	25522	25815	25849
40°	25476	25814	25854
45°	25379	25802	25833
50°	25228	25693	25688
55°	24933	25557	24923
60°	24470	25180	19500
65°	23654	22662	17569
70°	22160	17436	16192
75°	19622	15202	10091
80°	16159	8949	4510
85°	10649	5483	5908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1813.9	3.3
10°-20°	5233.4	9.5
20°-30°	8023.4	14.5
30°-40°	9839.9	17.8
40°-50°	10448.3	18.9
50°-60°	9543.3	17.3
60°-70°	6645.9	12.0
70°-80°	3099.7	5.6
80°-90°	536.2	1.0
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°	15070.7	27.3
0°-40°	24910.6	45.1
0°-60°	44902.2	81.4
0°-90°	55184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	55184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19115	19115	19115	19115	19115	
5°	18964	19097	19017	19108	19124	###
15°	18393	18522	18492	18604	18620	5194
25°	17243	17394	17367	17495	17463	7946
35°	15538	15717	15717	15822	15737	9723
45°	13338	13540	13560	13647	13576	10287
55°	10629	10842	10895	10913	10624	9492
65°	7430	7659	7118	5660	5518	7331
75°	3774	4013	2924	2026	1941	4035
85°	690	454	355	380	383	891
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19115.2	19115.2	19115.2	19115.2	19115.2
2.5°	19014.4	19135.9	19055.7	19142.7	19216.1
5°	18964.0	19096.9	19016.7	19108.4	19124.4
7.5°	18881.5	19007.5	18934.2	19035.0	19060.2
10°	18757.7	18881.5	18824.2	18943.4	18966.3
12.5°	18590.4	18716.5	18672.9	18803.6	18819.6
15°	18393.3	18521.7	18491.9	18604.2	18620.2
17.5°	18161.9	18294.8	18260.4	18379.6	18391.1
20°	17884.6	18029.0	17999.2	18139.0	18125.2
22.5°	17572.9	17726.5	17703.5	17843.3	17802.1
25°	17242.9	17394.2	17366.7	17495.0	17462.9
27.5°	16855.6	17022.9	16997.7	17121.4	17071.0
30°	16447.7	16617.3	16608.1	16720.4	16670.0
32.5°	16007.7	16188.7	16179.5	16289.5	16211.6
35°	15537.9	15716.6	15716.6	15822.0	15737.2
37.5°	15040.6	15221.6	15223.9	15324.7	15244.5
40°	14504.3	14685.3	14696.8	14793.1	14719.7
42.5°	13940.5	14137.6	14146.8	14233.9	14165.1
45°	13337.8	13539.5	13560.1	13647.2	13576.1
47.5°	12707.6	12911.5	12929.9	13023.8	12973.4
50°	12052.2	12249.2	12274.5	12352.4	12272.2
52.5°	11360.1	11561.7	11596.1	11644.2	11607.6
55°	10629.0	10842.1	10894.8	10913.2	10624.4
57.5°	9872.7	10090.4	10140.9	9719.2	8791.0
60°	9093.5	9309.0	9357.1	7906.4	7246.4
62.5°	8282.3	8493.1	8545.8	6552.0	6341.2
65°	7429.8	7658.9	7118.1	5660.5	5518.5
67.5°	6554.3	6790.4	5383.2	4851.6	4766.8
70°	5633.0	5871.4	4432.2	4136.6	4115.9
72.5°	4748.4	4924.9	3637.0	3135.1	2640.1
75°	3774.5	4012.8	2924.2	2025.9	1941.1
77.5°	2926.5	2530.1	1764.6	1485.0	1171.1
80°	2085.5	1691.3	1155.0	616.5	582.1
82.5°	1322.3	1104.6	453.8	465.2	485.8
85°	689.8	453.8	355.2	380.4	382.7
87.5°	222.3	194.8	213.1	210.8	208.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)