

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-CLI-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 (P23766)
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-CLI-UNV-L835-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

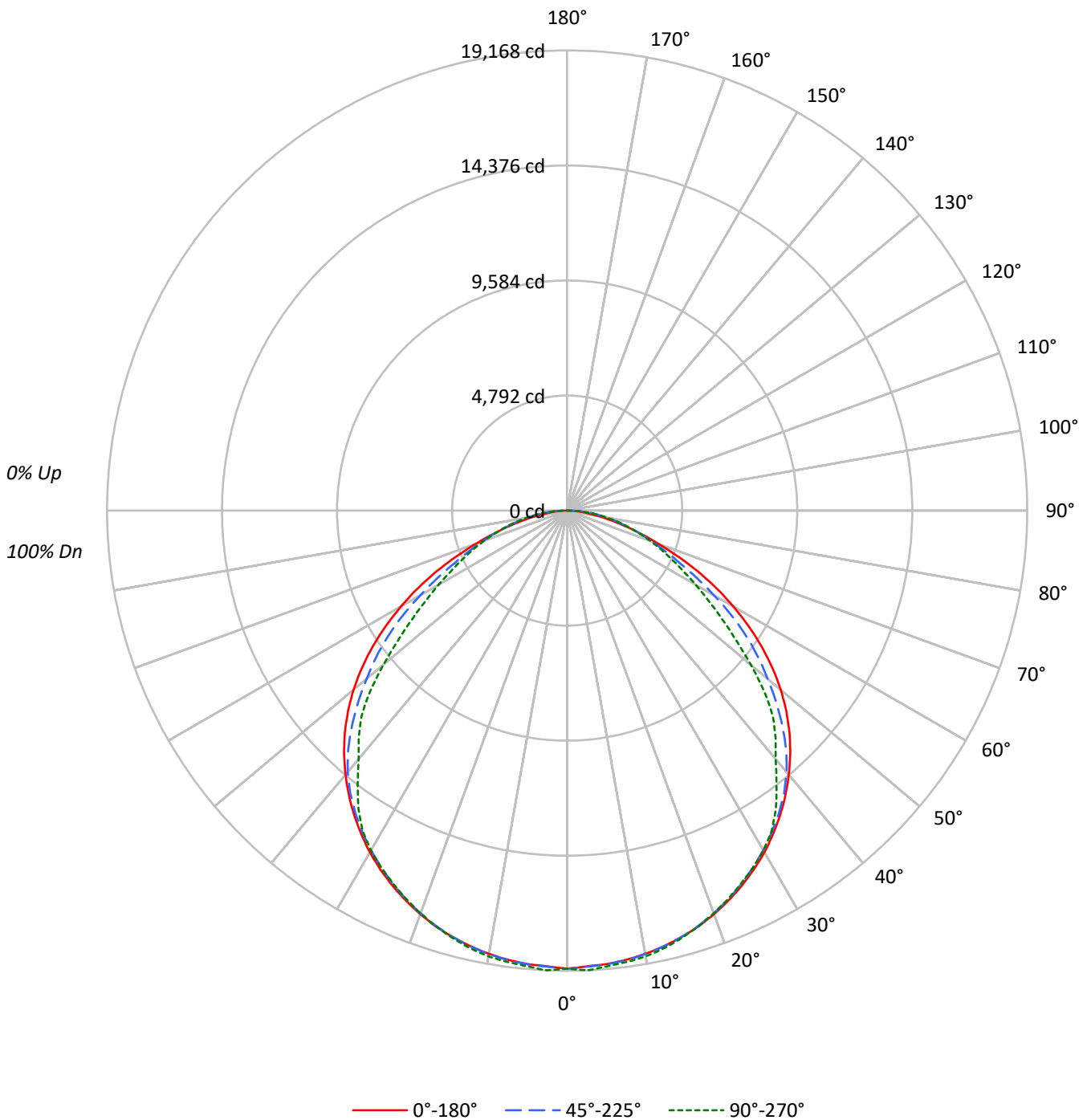
Lumens per Lamp: N/A
Luminaire Lumens: 51266.0 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25674	25674	25674
5°	25605	25623	25738
10°	25619	25632	25766
15°	25622	25619	25680
20°	25616	25557	25564
25°	25577	25482	25451
30°	25535	25382	25396
35°	25416	25258	24901
40°	25235	24977	23718
45°	24915	24117	23062
50°	24315	22833	20887
55°	23208	21354	18469
60°	21538	19053	16656
65°	19144	16497	15315
70°	15887	14743	14436
75°	12849	13492	13659
80°	10206	12903	12851
85°	7992	13863	13226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1809.6	3.5
10°-20°	5205.1	10.2
20°-30°	7936.9	15.5
30°-40°	9602.5	18.7
40°-50°	9726.4	19.0
50°-60°	8039.1	15.7
60°-70°	5309.7	10.4
70°-80°	2768.7	5.4
80°-90°	868.0	1.7
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°	14951.6	29.2
0°-40°	24554.0	47.9
0°-60°	42319.6	82.5
0°-90°	51266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	51266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19082	19082	19082	19082	19082	
5°	18958	19072	18972	19054	19056	###
15°	18394	18488	18392	18449	18436	5194
25°	17228	17297	17164	17208	17144	7944
35°	15474	15494	15377	15357	15160	9678
45°	13094	13059	12674	12280	12120	10082
55°	9894	9747	9103	8219	7873	8818
65°	6013	5839	5182	4845	4810	5939
75°	2472	2515	2595	2630	2627	2693
85°	518	667	898	891	857	628
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19081.5	19081.5	19081.5	19081.5	19081.5
2.5°	19001.3	19113.6	19019.6	19102.1	19168.5
5°	18957.8	19072.3	18971.5	19054.0	19056.3
7.5°	18873.0	18987.6	18884.5	18967.0	18964.7
10°	18751.6	18859.3	18760.8	18859.3	18859.3
12.5°	18586.7	18692.1	18595.9	18687.5	18673.8
15°	18394.3	18488.2	18392.0	18449.3	18435.5
17.5°	18167.5	18252.3	18144.6	18192.7	18165.2
20°	17890.3	17968.2	17849.1	17910.9	17853.7
22.5°	17578.8	17652.1	17530.7	17576.5	17512.4
25°	17228.3	17297.0	17164.2	17207.7	17143.6
27.5°	16850.4	16912.2	16763.3	16816.0	16765.6
30°	16435.7	16465.5	16337.2	16406.0	16346.4
32.5°	15973.0	15991.3	15879.1	15941.0	15840.2
35°	15473.6	15494.3	15377.4	15356.8	15159.8
37.5°	14939.9	14949.1	14839.1	14653.6	14328.3
40°	14367.2	14362.7	14220.6	13792.3	13503.7
42.5°	13755.6	13753.3	13503.7	13015.7	12850.8
45°	13093.6	13059.3	12674.4	12280.4	12120.1
47.5°	12383.5	12346.8	11808.5	11494.7	11130.5
50°	11616.1	11552.0	10908.3	10479.9	9978.3
52.5°	10789.2	10690.7	10035.5	9343.7	8869.6
55°	9893.5	9746.9	9103.2	8219.0	7873.1
57.5°	8961.2	8743.6	8118.2	7256.9	6975.2
60°	8003.7	7760.9	7080.5	6372.7	6189.5
62.5°	7018.7	6778.2	6084.1	5550.4	5449.6
65°	6013.1	5839.0	5181.6	4844.8	4810.5
67.5°	4982.3	4920.4	4418.8	4246.9	4233.2
70°	4038.5	4027.0	3747.6	3660.5	3669.7
72.5°	3227.6	3213.8	3172.6	3129.1	3131.4
75°	2471.7	2515.2	2595.4	2629.7	2627.4
77.5°	1844.0	1933.3	2102.9	2171.6	2160.1
80°	1317.2	1450.0	1665.3	1729.5	1658.5
82.5°	877.3	1017.1	1271.3	1280.5	1223.2
85°	517.7	666.6	898.0	891.1	856.7
87.5°	256.6	400.9	538.3	515.4	492.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)