

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-AI-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 (P23765)
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-AI-UNV-L735-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

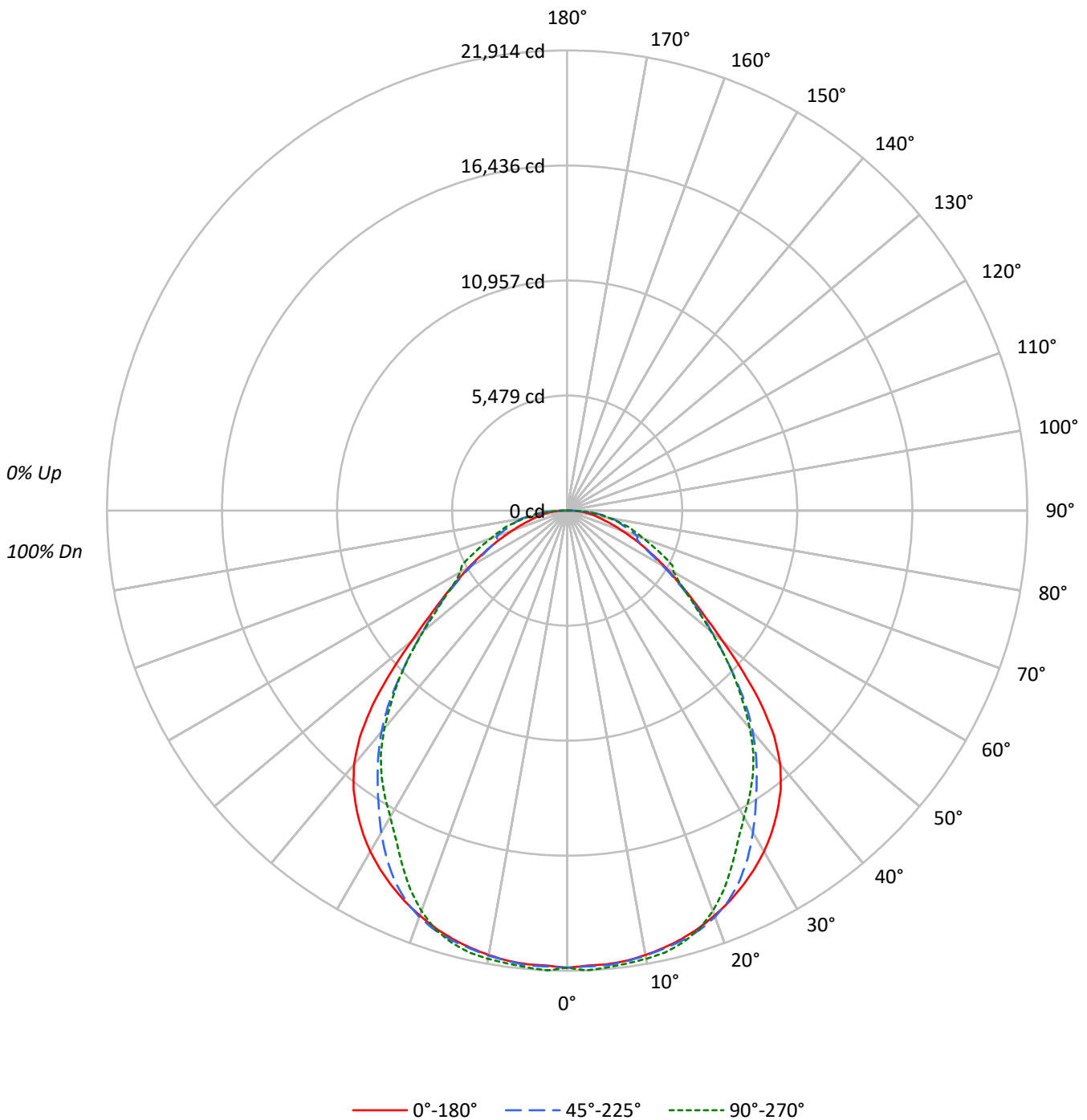
Lumens per Lamp: N/A
Luminaire Lumens: 50387.0 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29290	29290	29290
5°	29288	29352	29495
10°	29361	29398	29614
15°	29406	29516	29660
20°	29376	29486	29048
25°	29302	28863	27608
30°	29129	27502	26161
35°	28691	25848	25310
40°	27731	24168	23770
45°	24925	21581	21501
50°	20216	18797	18668
55°	16786	16474	16468
60°	14534	14109	15774
65°	12596	12517	15900
70°	10861	14042	15157
75°	9739	14391	15801
80°	10123	16942	15853
85°	11492	19523	18115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2072.7	4.1
10°-20°	5986.0	11.9
20°-30°	8890.5	17.6
30°-40°	10093.2	20.0
40°-50°	9022.9	17.9
50°-60°	6238.5	12.4
60°-70°	4116.5	8.2
70°-80°	2777.2	5.5
80°-90°	1189.5	2.4
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°	16949.2	33.6
0°-40°	27042.5	53.7
0°-60°	42303.8	84.0
0°-90°	50387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	50387.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21769	21769	21769	21769	21769	
5°	21685	21818	21732	21820	21838	###
15°	21111	21212	21190	21308	21293	5959
25°	19738	19925	19442	18862	18596	9095
35°	17467	17100	15737	15508	15409	10892
45°	13099	11990	11342	11428	11300	9962
55°	7156	6532	7023	6924	7020	6500
65°	3956	3513	3932	4597	4994	3948
75°	1873	2357	2768	2958	3039	2046
85°	744	1035	1265	1272	1173	776
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21768.7	21768.7	21768.7	21768.7	21768.7
2.5°	21694.8	21830.4	21729.3	21823.0	21914.2
5°	21684.9	21818.0	21731.8	21820.5	21837.8
7.5°	21623.3	21746.6	21645.5	21731.8	21751.5
10°	21490.2	21635.6	21517.3	21650.4	21675.1
12.5°	21317.6	21465.5	21362.0	21544.4	21554.3
15°	21110.6	21211.6	21189.5	21307.8	21293.0
17.5°	20849.3	20965.1	20947.9	20977.5	20908.4
20°	20516.5	20647.2	20592.9	20457.3	20287.3
22.5°	20159.1	20316.8	20102.4	19759.7	19520.6
25°	19737.6	19924.9	19441.7	18862.5	18596.2
27.5°	19271.7	19439.3	18635.7	17925.7	17649.7
30°	18749.1	18820.6	17701.4	17026.0	16838.7
32.5°	18145.1	18041.6	16703.1	16256.9	16148.5
35°	17467.3	17100.0	15736.8	15507.5	15408.9
37.5°	16703.1	16030.1	14782.8	14676.8	14573.3
40°	15788.6	14795.2	13759.8	13690.8	13533.1
42.5°	14607.8	13451.7	12623.5	12542.1	12401.6
45°	13099.2	11989.9	11341.6	11427.9	11299.7
47.5°	11363.8	10523.2	10111.6	10348.2	10111.6
50°	9658.0	9093.5	8980.1	9194.6	8918.5
52.5°	8260.3	7752.5	7986.7	8023.7	7858.5
55°	7156.0	6532.3	7022.9	6924.3	7020.4
57.5°	6194.6	5497.0	6101.0	5987.6	6317.9
60°	5400.9	4617.0	5243.1	5218.5	5861.9
62.5°	4621.9	3995.8	4498.7	4861.1	5652.3
65°	3956.4	3512.7	3931.7	4597.3	4994.2
67.5°	3317.9	3150.3	3596.5	3966.2	4400.1
70°	2760.8	2847.1	3569.4	3500.4	3852.9
72.5°	2292.5	2585.8	3150.3	3162.6	3411.6
75°	1873.4	2356.6	2768.2	2958.0	3039.4
77.5°	1557.9	2137.2	2499.5	2566.1	2487.2
80°	1306.5	1883.3	2186.5	2156.9	2046.0
82.5°	1055.0	1427.3	1723.1	1750.2	1619.5
85°	744.4	1035.3	1264.6	1272.0	1173.4
87.5°	399.3	638.4	766.6	788.8	729.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)