

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-L750-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-L750-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

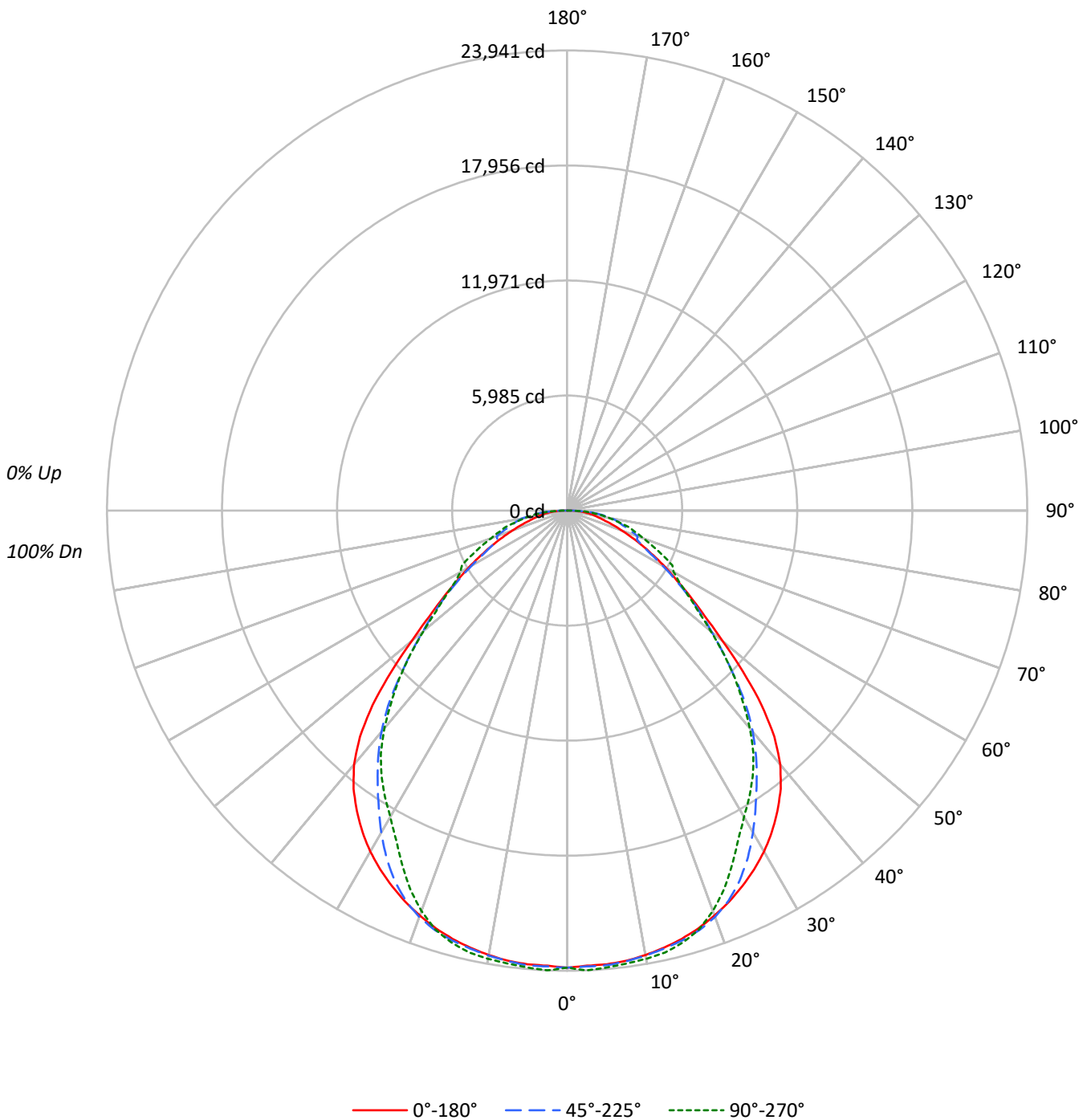
Lumens per Lamp: N/A
Luminaire Lumens: 55048.0 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	31999	31999	31999
5°	31998	32067	32223
10°	32077	32117	32353
15°	32126	32246	32404
20°	32094	32213	31735
25°	32013	31533	30162
30°	31824	30046	28581
35°	31345	28239	27651
40°	30297	26404	25968
45°	27231	23577	23490
50°	22086	20536	20395
55°	18339	17998	17992
60°	15878	15414	17233
65°	13761	13675	17371
70°	11866	15341	16559
75°	10640	15722	17262
80°	11059	18509	17319
85°	12556	21327	19790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2264.4	4.1
10°-20°	6539.8	11.9
20°-30°	9712.9	17.6
30°-40°	11026.9	20.0
40°-50°	9857.6	17.9
50°-60°	6815.5	12.4
60°-70°	4497.3	8.2
70°-80°	3034.1	5.5
80°-90°	1299.5	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°	18517.1	33.6
0°-40°	29544.0	53.7
0°-60°	46217.1	84.0
0°-90°	55048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	55048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23782	23782	23782	23782	23782	
5°	23691	23836	23742	23839	23858	###
15°	23063	23174	23150	23279	23263	6510
25°	21563	21768	21240	20607	20316	9936
35°	19083	18682	17192	16942	16834	11900
45°	14311	13099	12391	12485	12345	10883
55°	7818	7137	7672	7565	7670	7101
65°	4322	3838	4295	5023	5456	4313
75°	2047	2575	3024	3232	3320	2235
85°	813	1131	1382	1390	1282	848
90°	0	0	0	0	0	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23782.4	23782.4	23782.4	23782.4	23782.4
2.5°	23701.6	23849.8	23739.3	23841.7	23941.3
5°	23690.9	23836.3	23742.0	23839.0	23857.8
7.5°	23623.5	23758.2	23647.8	23742.0	23763.6
10°	23478.1	23637.0	23507.7	23653.2	23680.1
12.5°	23289.6	23451.2	23338.1	23537.4	23548.1
15°	23063.4	23173.8	23149.6	23278.8	23262.7
17.5°	22777.9	22904.5	22885.6	22918.0	22842.6
20°	22414.4	22557.1	22497.8	22349.7	22163.9
22.5°	22023.9	22196.2	21961.9	21587.6	21326.4
25°	21563.4	21768.0	21240.2	20607.3	20316.5
27.5°	21054.4	21237.5	20359.6	19584.0	19282.3
30°	20483.4	20561.5	19338.9	18601.0	18396.3
32.5°	19823.6	19710.5	18248.2	17760.7	17642.3
35°	19083.0	18681.8	17192.5	16942.1	16834.3
37.5°	18248.2	17513.0	16150.3	16034.5	15921.4
40°	17249.1	16163.8	15032.7	14957.3	14784.9
42.5°	15959.1	14696.0	13791.2	13702.3	13548.8
45°	14310.9	13099.1	12390.8	12485.0	12345.0
47.5°	12415.0	11496.7	11046.9	11305.5	11046.9
50°	10551.4	9934.7	9810.8	10045.1	9743.5
52.5°	9024.5	8469.7	8725.5	8765.9	8585.5
55°	7818.0	7136.6	7672.5	7564.8	7669.8
57.5°	6767.7	6005.5	6665.3	6541.4	6902.3
60°	5900.5	5044.1	5728.1	5701.2	6404.1
62.5°	5049.5	4365.5	4914.8	5310.7	6175.2
65°	4322.4	3837.6	4295.4	5022.6	5456.1
67.5°	3624.9	3441.7	3929.2	4333.1	4807.1
70°	3016.2	3110.5	3899.6	3824.1	4209.3
72.5°	2504.5	2825.0	3441.7	3455.2	3727.2
75°	2046.7	2574.6	3024.3	3231.7	3320.5
77.5°	1702.0	2334.9	2730.8	2803.5	2717.3
80°	1427.3	2057.5	2388.7	2356.4	2235.2
82.5°	1152.6	1559.3	1882.5	1912.1	1769.3
85°	813.3	1131.1	1381.5	1389.6	1281.9
87.5°	436.3	697.5	837.5	861.8	797.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)