

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-LD5-15SE-W-CLWG-UNV-L840-ED1-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-W-CLWG-UNV-L840-ED1-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

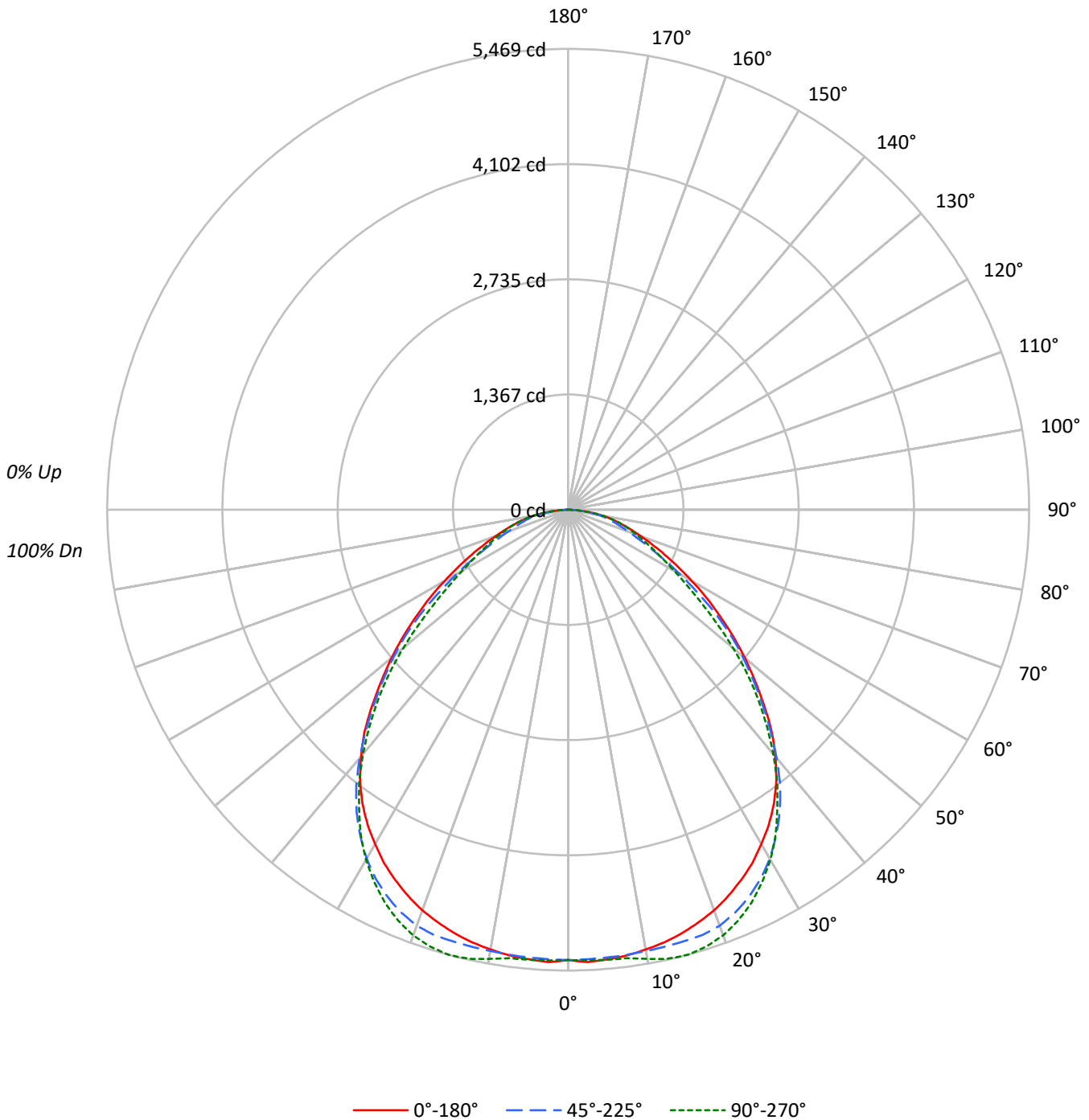
Lumens per Lamp: N/A
Luminaire Lumens: 13331.0 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
Input Voltage (V): NR
Input Current (A_{in}): 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	110	105	102	98	107	103	100	96	99	96	93		95	93	91		92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79		85	81	77		82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67		76	70	66		73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58		68	62	57		66	61	57	55
5	79	67	58	52	77	65	57	52	63	56	51		61	55	50		60	54	50	48
6	73	60	52	46	71	59	51	45	58	50	45		56	50	45		54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40		51	45	40		50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36		47	41	36		46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33		43	37	33		42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30		40	34	30		39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7192	7192	7192
5°	7235	7205	7240
10°	7241	7265	7395
15°	7250	7386	7619
20°	7245	7521	7697
25°	7201	7528	7639
30°	7118	7429	7452
35°	6991	7188	7102
40°	6715	6756	6650
45°	6257	6191	6065
50°	5729	5636	5348
55°	5146	4955	4522
60°	4563	4100	3903
65°	4021	3406	3542
70°	3596	2956	3374
75°	3369	2874	3412
80°	3280	2906	3247
85°	2618	2299	2384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.2	3.8
10°-20°	1499.9	11.3
20°-30°	2307.4	17.3
30°-40°	2692.8	20.2
40°-50°	2502.4	18.8
50°-60°	1854.8	13.9
60°-70°	1133.9	8.5
70°-80°	645.9	4.8
80°-90°	184.7	1.4
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°	4316.5	32.4
0°-40°	7009.3	52.6
0°-60°	11366.5	85.3
0°-90°	13331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13331.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5345	5345	5345	5345	5345	
5°	5356	5332	5334	5330	5360	510
15°	5205	5202	5303	5407	5469	1469
25°	4850	4888	5071	5114	5145	2234
35°	4256	4289	4376	4340	4324	2652
45°	3288	3308	3254	3203	3188	2534
55°	2194	2138	2112	1962	1928	1969
65°	1263	1147	1070	1099	1113	1264
75°	648	608	553	630	656	693
85°	170	165	149	154	154	196
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5345.3	5345.3	5345.3	5345.3	5345.3
2.5°	5374.3	5344.0	5338.5	5326.0	5353.6
5°	5356.4	5331.6	5334.3	5330.2	5360.5
7.5°	5335.7	5317.8	5328.8	5327.4	5367.4
10°	5299.8	5290.2	5317.8	5348.1	5412.9
12.5°	5259.9	5250.2	5310.9	5388.1	5458.4
15°	5204.7	5202.0	5302.6	5407.4	5469.4
17.5°	5135.8	5139.9	5293.0	5382.6	5437.7
20°	5059.9	5066.8	5253.0	5326.0	5375.7
22.5°	4962.1	4985.5	5175.8	5236.4	5275.0
25°	4850.4	4887.6	5071.0	5113.7	5145.4
27.5°	4730.4	4767.7	4941.4	4963.4	4981.4
30°	4581.5	4633.9	4781.4	4784.2	4796.6
32.5°	4429.9	4476.7	4589.8	4577.4	4580.1
35°	4256.1	4289.2	4376.1	4340.3	4323.7
37.5°	4056.2	4074.2	4129.3	4075.5	4072.8
40°	3823.2	3846.7	3846.7	3772.2	3786.0
42.5°	3575.1	3583.3	3548.9	3478.5	3489.6
45°	3288.3	3307.6	3253.8	3202.8	3187.6
47.5°	3004.3	3023.6	2967.0	2907.7	2881.6
50°	2736.8	2727.1	2692.7	2592.0	2554.8
52.5°	2459.7	2429.3	2415.5	2268.0	2225.3
55°	2193.6	2138.4	2112.2	1961.9	1927.5
57.5°	1946.8	1847.5	1797.9	1680.7	1666.9
60°	1695.8	1584.2	1523.5	1447.7	1450.4
62.5°	1468.4	1351.2	1278.1	1256.0	1265.7
65°	1262.9	1147.1	1069.9	1098.8	1112.6
67.5°	1076.8	981.7	894.8	962.4	976.1
70°	914.1	838.3	751.4	850.7	857.6
72.5°	779.0	716.9	643.9	737.6	752.8
75°	648.0	608.0	552.9	630.1	656.3
77.5°	533.6	501.9	470.1	517.0	546.0
80°	423.3	391.6	375.0	399.8	419.1
82.5°	299.2	278.5	262.0	279.9	289.5
85°	169.6	165.4	148.9	154.4	154.4
87.5°	38.6	44.1	49.6	45.5	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)