

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-WG-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 (P33336)
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-WG-UNV-L840-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

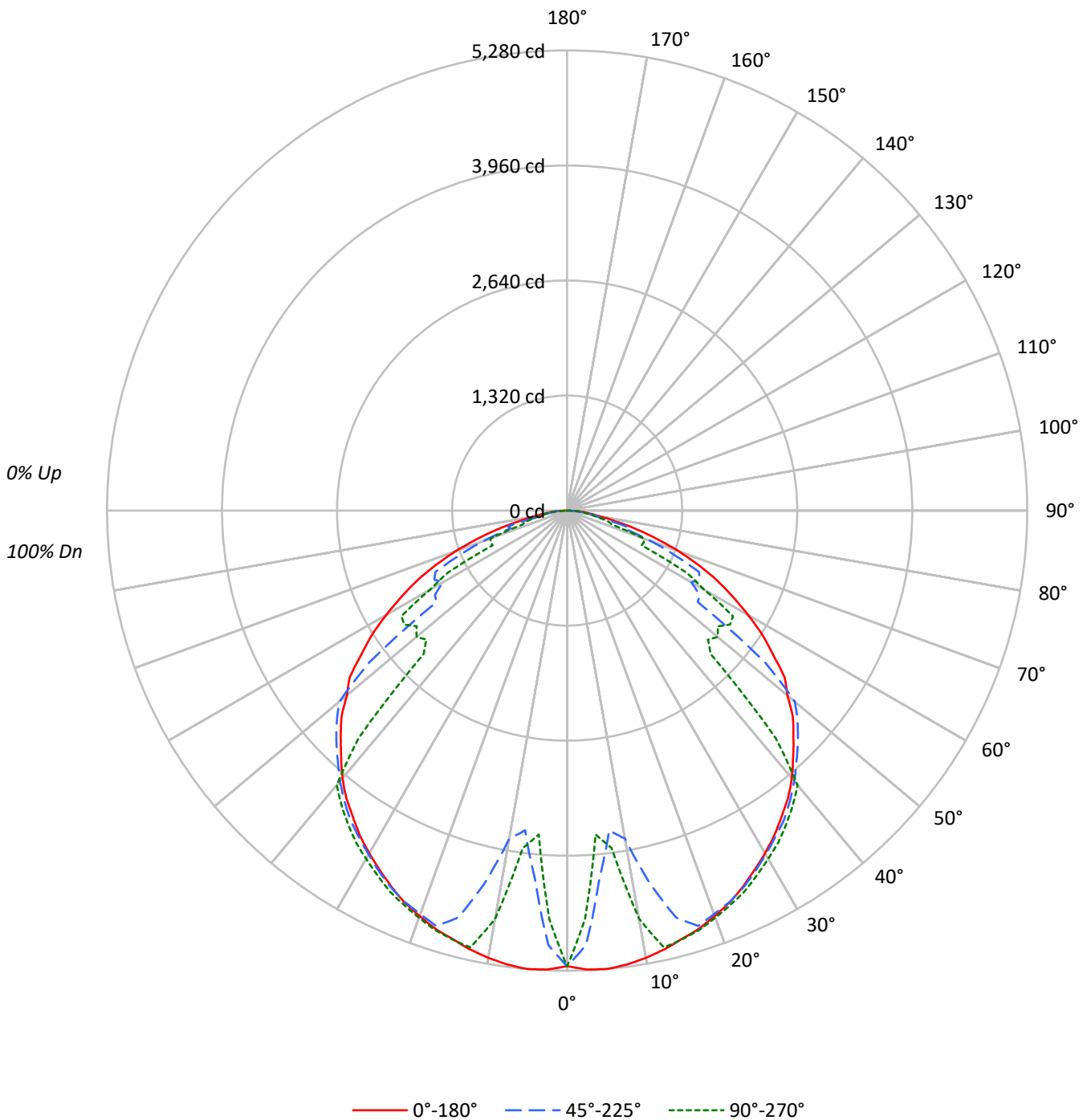
Lumens per Lamp: N/A
Luminaire Lumens: 13849.0 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
Input Voltage (V): NR
Input Current (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	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7034	7034	7034
5°	7131	5729	5039
10°	7119	5225	6498
15°	7088	6734	7094
20°	7088	7055	7118
25°	7075	7091	7156
30°	7054	7078	7169
35°	7043	7121	7205
40°	7044	7121	7223
45°	6989	7126	4428
50°	6910	7140	4720
55°	6764	4293	5349
60°	6452	4426	4898
65°	6046	5314	2997
70°	5338	4026	3674
75°	4253	3659	2548
80°	2930	2645	2189
85°	2808	2441	2316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.0	3.0
10°-20°	1309.6	9.5
20°-30°	2154.6	15.6
30°-40°	2709.1	19.6
40°-50°	2656.9	19.2
50°-60°	2201.4	15.9
60°-70°	1552.7	11.2
70°-80°	677.4	4.9
80°-90°	169.2	1.2
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°	3882.2	28.0
0°-40°	6591.3	47.6
0°-60°	11449.6	82.7
0°-90°	13849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5228	5228	5228	5228	5228	
5°	5280	4914	4242	3846	3730	501
15°	5088	3534	4834	5108	5092	1439
25°	4766	4361	4776	4808	4820	2197
35°	4288	4286	4336	4364	4386	2687
45°	3673	3684	3745	3317	2327	2835
55°	2884	2978	1830	2081	2280	2580
65°	1899	2011	1669	1284	941	1867
75°	818	802	704	460	490	877
85°	182	162	158	151	150	189
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5227.5	5227.5	5227.5	5227.5	5227.5
2.5°	5270.7	5161.3	4987.5	4768.7	4691.2
5°	5280.1	4914.4	4241.8	3846.1	3730.5
7.5°	5253.2	4466.2	3698.0	3781.1	3903.6
10°	5210.7	4072.4	3824.2	4499.3	4756.2
12.5°	5156.3	3722.4	4381.2	5082.5	5133.8
15°	5088.2	3533.6	4834.4	5108.2	5092.5
17.5°	5030.6	3644.2	4996.9	5056.9	5045.6
20°	4950.0	3864.9	4927.5	4975.6	4971.3
22.5°	4868.8	4126.2	4861.9	4896.3	4896.3
25°	4765.6	4360.6	4776.2	4808.1	4820.0
27.5°	4652.5	4495.6	4669.4	4695.6	4716.9
30°	4540.6	4515.0	4555.6	4589.3	4614.3
32.5°	4422.4	4412.4	4444.3	4480.0	4511.8
35°	4288.1	4285.6	4335.6	4364.3	4386.2
37.5°	4161.8	4153.0	4199.3	4239.3	4256.2
40°	4010.5	4010.5	4054.3	4094.9	4112.4
42.5°	3838.0	3862.4	3896.1	3938.0	3546.7
45°	3673.0	3684.2	3744.9	3316.7	2327.2
47.5°	3514.2	3528.6	3586.1	2132.1	2190.3
50°	3301.0	3366.1	3411.1	2125.9	2254.7
52.5°	3145.4	3173.5	2863.5	2104.6	2177.2
55°	2883.5	2977.9	1830.2	2080.9	2280.3
57.5°	2659.7	2728.5	1799.6	2132.1	2255.9
60°	2397.8	2502.8	1644.6	2057.1	1820.2
62.5°	2146.5	2246.5	1717.1	1619.0	1541.4
65°	1899.0	2010.9	1669.0	1283.9	941.4
67.5°	1627.7	1523.3	1331.4	904.5	952.0
70°	1357.0	1063.9	1023.3	1011.4	933.9
72.5°	1078.9	776.3	679.5	758.8	543.2
75°	818.2	802.0	703.8	460.1	490.1
77.5°	567.6	578.8	376.9	448.8	372.5
80°	378.2	327.5	341.3	286.3	282.5
82.5°	261.9	267.5	224.4	217.5	220.7
85°	181.9	161.9	158.1	151.3	150.0
87.5°	60.6	70.6	65.6	59.4	63.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)