

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-LD5-12SE-W-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 (P23760)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-UNV-L840-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

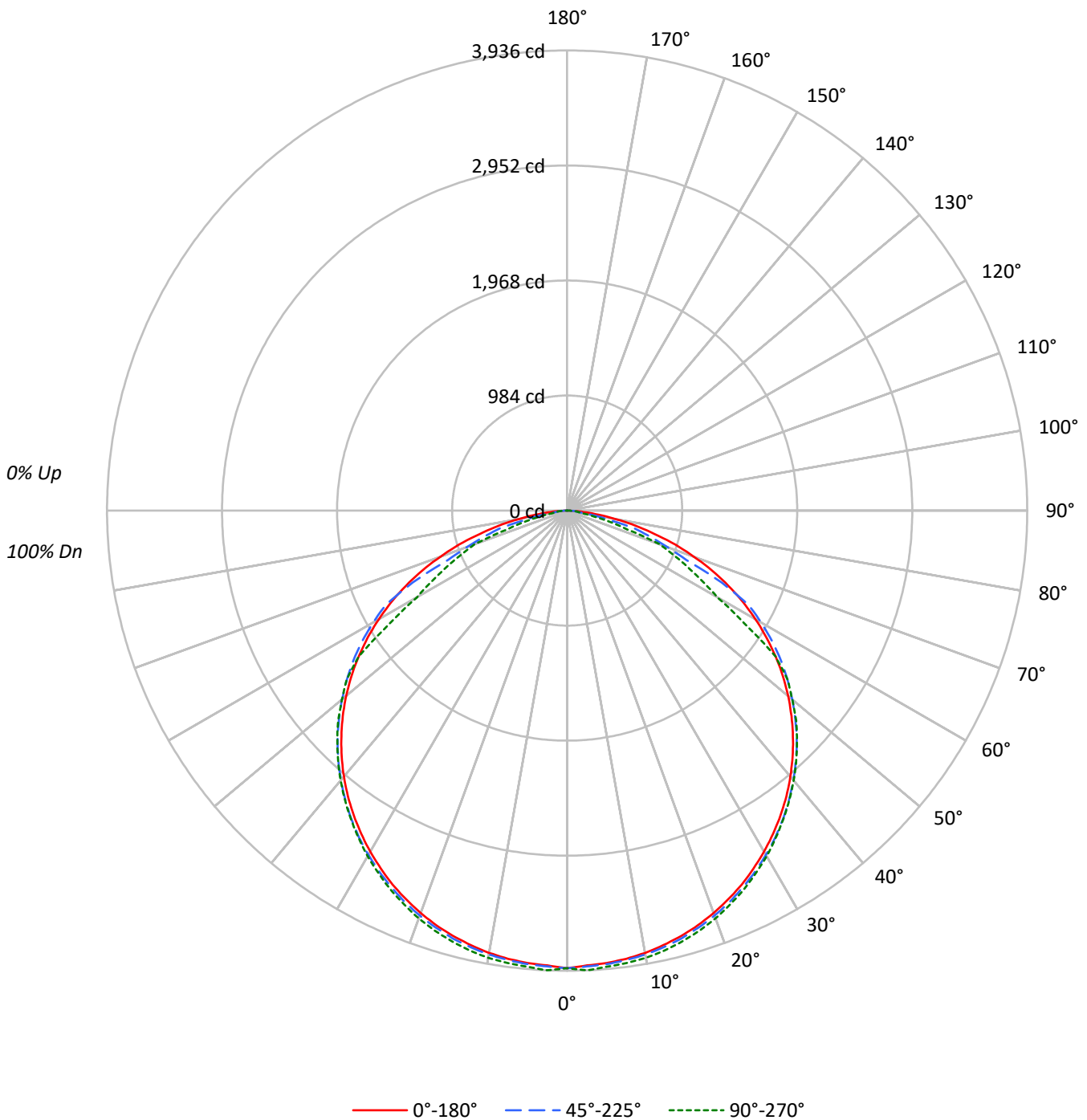
Lumens per Lamp: N/A
Luminaire Lumens: 11302.0 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
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	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5267	5267	5267
5°	5246	5260	5290
10°	5249	5267	5307
15°	5247	5275	5312
20°	5245	5278	5315
25°	5243	5280	5310
30°	5234	5285	5304
35°	5227	5287	5294
40°	5218	5287	5295
45°	5198	5284	5291
50°	5167	5262	5261
55°	5107	5234	5104
60°	5012	5157	3994
65°	4845	4641	3598
70°	4539	3571	3316
75°	4018	3113	2066
80°	3309	1833	924
85°	2181	1124	1210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.5	3.3
10°-20°	1071.8	9.5
20°-30°	1643.2	14.5
30°-40°	2015.3	17.8
40°-50°	2139.9	18.9
50°-60°	1954.5	17.3
60°-70°	1361.1	12.0
70°-80°	634.8	5.6
80°-90°	109.8	1.0
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°	3086.6	27.3
0°-40°	5101.8	45.1
0°-60°	9196.2	81.4
0°-90°	11302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3915	3915	3915	3915	3915	
5°	3884	3911	3895	3914	3917	369
15°	3767	3793	3787	3810	3814	1064
25°	3531	3562	3557	3583	3576	1627
35°	3182	3219	3219	3240	3223	1991
45°	2732	2773	2777	2795	2780	2107
55°	2177	2220	2231	2235	2176	1944
65°	1522	1569	1458	1159	1130	1501
75°	773	822	599	415	398	826
85°	141	93	73	78	78	182
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3914.9	3914.9	3914.9	3914.9	3914.9
2.5°	3894.3	3919.1	3902.7	3920.5	3935.6
5°	3883.9	3911.2	3894.7	3913.5	3916.8
7.5°	3867.0	3892.9	3877.8	3898.5	3903.6
10°	3841.7	3867.0	3855.3	3879.7	3884.4
12.5°	3807.4	3833.2	3824.3	3851.1	3854.4
15°	3767.1	3793.3	3787.2	3810.2	3813.5
17.5°	3719.7	3746.9	3739.8	3764.2	3766.6
20°	3662.9	3692.4	3686.3	3715.0	3712.1
22.5°	3599.0	3630.5	3625.8	3654.4	3646.0
25°	3531.4	3562.4	3556.8	3583.1	3576.5
27.5°	3452.1	3486.4	3481.2	3506.6	3496.2
30°	3368.6	3403.3	3401.4	3424.4	3414.1
32.5°	3278.5	3315.5	3313.7	3336.2	3320.2
35°	3182.2	3218.9	3218.9	3240.4	3223.1
37.5°	3080.4	3117.5	3117.9	3138.6	3122.2
40°	2970.6	3007.6	3010.0	3029.7	3014.7
42.5°	2855.1	2895.5	2897.3	2915.2	2901.1
45°	2731.7	2773.0	2777.2	2795.0	2780.5
47.5°	2602.6	2644.4	2648.1	2667.4	2657.0
50°	2468.4	2508.7	2513.9	2529.8	2513.4
52.5°	2326.6	2367.9	2374.9	2384.8	2377.3
55°	2176.9	2220.5	2231.3	2235.1	2175.9
57.5°	2022.0	2066.6	2076.9	1990.5	1800.5
60°	1862.4	1906.5	1916.4	1619.3	1484.1
62.5°	1696.3	1739.4	1750.2	1341.9	1298.7
65°	1521.7	1568.6	1457.8	1159.3	1130.2
67.5°	1342.4	1390.7	1102.5	993.6	976.3
70°	1153.7	1202.5	907.7	847.2	843.0
72.5°	972.5	1008.6	744.9	642.1	540.7
75°	773.0	821.8	598.9	414.9	397.5
77.5°	599.4	518.2	361.4	304.1	239.8
80°	427.1	346.4	236.6	126.3	119.2
82.5°	270.8	226.2	92.9	95.3	99.5
85°	141.3	92.9	72.8	77.9	78.4
87.5°	45.5	39.9	43.7	43.2	42.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)