

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-LD5-30HE-W-A-UNV-L850-ED2-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 (P23761)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-W-A-UNV-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

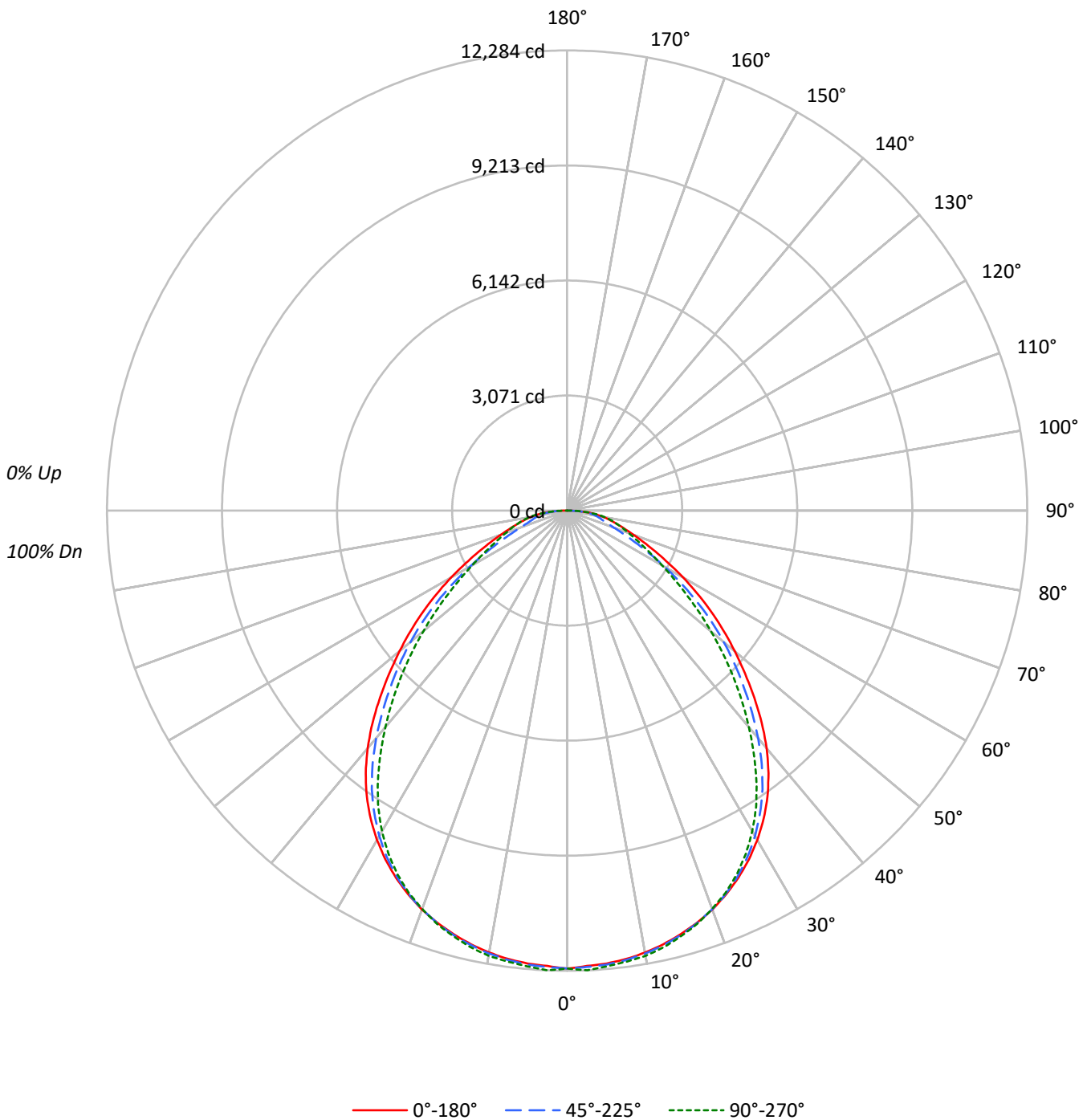
Lumens per Lamp: N/A
Luminaire Lumens: 28082.0 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 180
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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16448	16448	16448
5°	16390	16427	16494
10°	16367	16404	16487
15°	16312	16345	16383
20°	16226	16215	16203
25°	16050	15995	15905
30°	15773	15583	15356
35°	15315	14930	14470
40°	14553	13928	13260
45°	13444	12694	11926
50°	12221	11431	10490
55°	10989	9896	9068
60°	9616	8088	7869
65°	8291	6360	7102
70°	7392	5190	6845
75°	7081	5067	7153
80°	7659	5993	7969
85°	8599	7216	8684



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1158.6	4.1
10°-20°	3315.8	11.8
20°-30°	4960.1	17.7
30°-40°	5659.1	20.2
40°-50°	5151.3	18.3
50°-60°	3782.6	13.5
60°-70°	2233.5	8.0
70°-80°	1279.9	4.6
80°-90°	541.2	1.9
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°	9434.5	33.6
0°-40°	15093.5	53.7
0°-60°	24027.4	85.6
0°-90°	28082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28082.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12225	12225	12225	12225	12225	
5°	12135	12211	12162	12211	12212	###
15°	11710	11775	11734	11775	11761	3304
25°	10811	10850	10774	10770	10714	4977
35°	9324	9278	9090	8934	8810	5809
45°	7066	7024	6671	6372	6267	5445
55°	4685	4468	4219	3913	3866	4189
65°	2604	2273	1998	2137	2231	2621
75°	1362	1168	975	1271	1376	1468
85°	557	514	467	552	562	583
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12224.6	12224.6	12224.6	12224.6	12224.6
2.5°	12168.0	12238.4	12194.2	12242.5	12283.9
5°	12135.0	12210.8	12162.5	12210.8	12212.2
7.5°	12074.3	12144.6	12097.7	12150.1	12144.6
10°	11979.2	12049.5	12006.7	12063.3	12067.4
12.5°	11857.8	11925.4	11881.3	11946.1	11935.0
15°	11710.3	11775.1	11733.8	11775.1	11761.3
17.5°	11536.6	11595.9	11542.1	11587.6	11564.2
20°	11332.6	11382.2	11324.3	11367.0	11316.0
22.5°	11088.6	11132.7	11072.0	11095.4	11043.1
25°	10811.4	10850.0	10774.2	10770.1	10713.6
27.5°	10502.6	10523.3	10426.8	10393.7	10328.9
30°	10152.4	10158.0	10029.7	9967.7	9883.6
32.5°	9759.5	9745.7	9581.7	9489.3	9385.9
35°	9323.9	9278.4	9089.5	8933.7	8809.6
37.5°	8831.7	8760.0	8533.9	8303.7	8185.1
40°	8285.7	8201.6	7930.0	7644.7	7549.5
42.5°	7691.5	7619.8	7300.0	7002.2	6908.5
45°	7065.6	7024.3	6671.3	6372.2	6267.4
47.5°	6439.7	6409.4	6064.7	5760.0	5633.2
50°	5838.6	5772.4	5460.9	5127.2	5011.4
52.5°	5255.4	5120.3	4846.0	4504.1	4418.6
55°	4684.7	4468.2	4218.7	3912.6	3865.8
57.5°	4119.4	3839.6	3596.9	3368.1	3366.7
60°	3573.5	3253.6	3005.5	2885.5	2924.1
62.5°	3062.0	2733.9	2465.0	2473.3	2543.6
65°	2604.3	2273.4	1997.7	2136.9	2230.7
67.5°	2211.4	1895.7	1615.8	1875.0	1964.6
70°	1879.1	1593.7	1319.4	1643.4	1739.9
72.5°	1599.2	1359.4	1112.6	1450.3	1548.2
75°	1362.1	1167.7	974.7	1271.1	1375.9
77.5°	1169.1	996.8	874.1	1100.2	1209.1
80°	988.5	836.8	773.4	934.7	1028.5
82.5°	783.1	678.3	641.1	759.6	807.9
85°	557.0	514.2	467.4	551.5	562.5
87.5°	306.1	317.1	261.9	317.1	318.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)