

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-CL-UNV-L735-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 (P23762)
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-CL-UNV-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

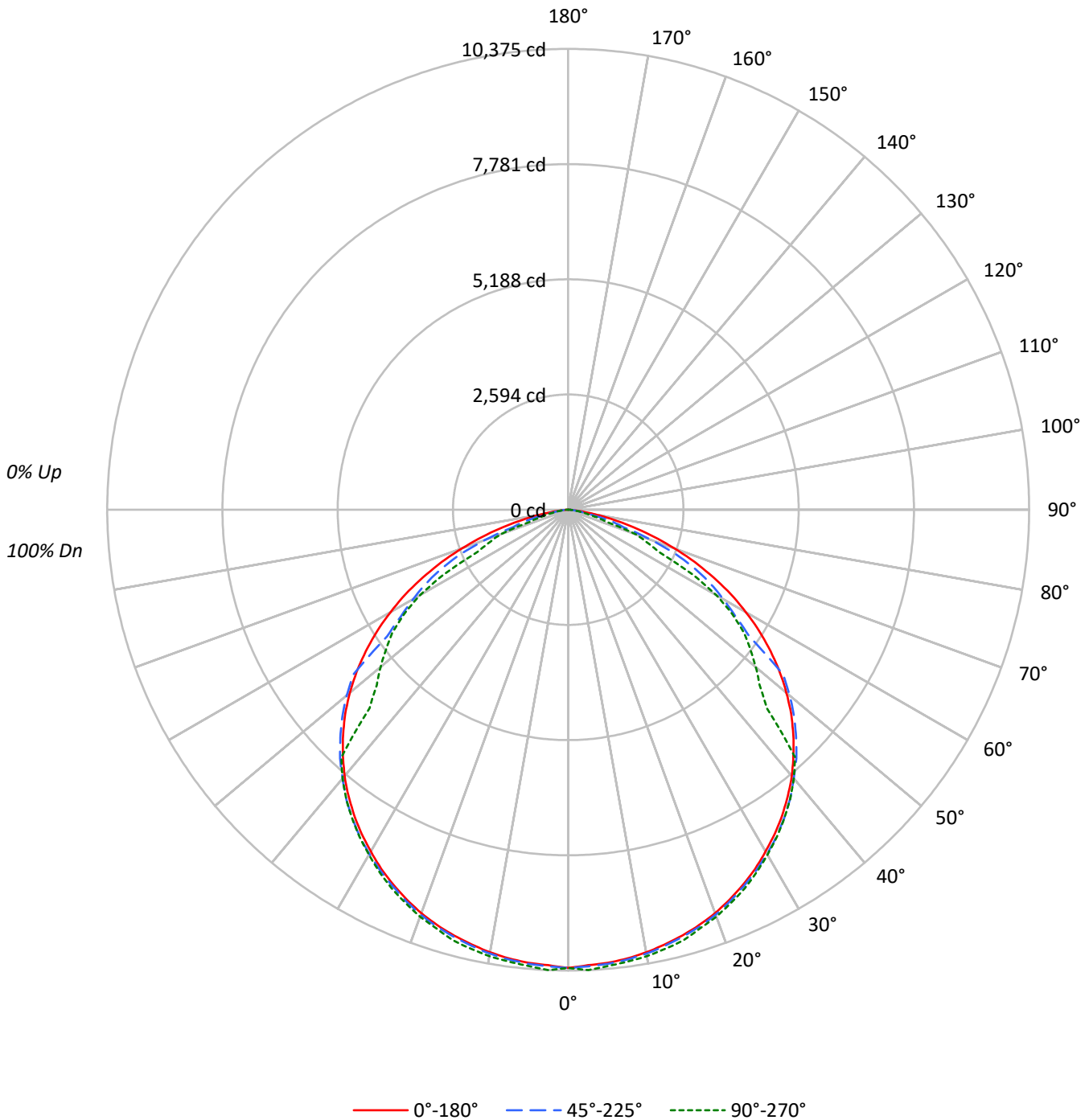
Lumens per Lamp: N/A
Luminaire Lumens: 27885.0 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64					62				
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55					53				
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48					46				
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42					40				
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38					36				
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34					32				
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30					29				
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28					26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13878	13878	13878
5°	13828	13858	13926
10°	13826	13866	13946
15°	13825	13867	13979
20°	13843	13895	13960
25°	13827	13879	13963
30°	13801	13902	13933
35°	13794	13920	13930
40°	13751	13872	13872
45°	13633	13798	12023
50°	13423	13625	11535
55°	13042	11663	11330
60°	12430	10842	10352
65°	11495	10064	7169
70°	10010	7831	6388
75°	7907	5256	3434
80°	5089	2510	2141
85°	2093	1531	1687



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	978.4	3.5
10°-20°	2820.2	10.1
20°-30°	4323.7	15.5
30°-40°	5299.4	19.0
40°-50°	5448.2	19.5
50°-60°	4649.8	16.7
60°-70°	3074.1	11.0
70°-80°	1138.9	4.1
80°-90°	152.3	0.5
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°	8122.3	29.1
0°-40°	13421.8	48.1
0°-60°	23519.7	84.3
0°-90°	27885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27885.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10315	10315	10315	10315	10315	
5°	10238	10310	10261	10301	10311	974
15°	9925	9986	9955	10031	10036	2804
25°	9314	9363	9349	9433	9405	4294
35°	8398	8456	8475	8527	8481	5253
45°	7165	7236	7252	7240	6318	5521
55°	5560	5662	4972	4828	4830	4961
65°	3611	3641	3161	2600	2252	3560
75°	1521	1332	1011	679	661	1632
85°	136	97	99	108	109	224
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10314.6	10314.6	10314.6	10314.6	10314.6
2.5°	10264.3	10328.4	10290.7	10338.4	10374.8
5°	10237.9	10309.5	10260.6	10300.7	10310.8
7.5°	10192.7	10259.3	10214.1	10266.8	10259.3
10°	10119.9	10180.2	10148.8	10204.0	10207.8
12.5°	10027.0	10087.2	10058.4	10126.2	10124.9
15°	9925.2	9985.5	9955.4	10030.7	10035.8
17.5°	9805.9	9861.2	9838.6	9907.7	9880.0
20°	9667.8	9715.5	9704.2	9769.5	9749.4
22.5°	9498.2	9547.2	9535.9	9611.3	9581.1
25°	9313.6	9362.6	9348.8	9432.9	9405.3
27.5°	9113.9	9160.4	9159.1	9238.3	9195.6
30°	8882.9	8944.4	8948.2	9018.5	8968.3
32.5°	8654.3	8712.1	8728.4	8779.9	8737.2
35°	8398.1	8455.9	8474.7	8527.4	8481.0
37.5°	8121.8	8170.8	8204.7	8243.6	8207.2
40°	7829.2	7873.1	7898.2	7946.0	7898.2
42.5°	7502.6	7565.4	7600.6	7634.5	7556.6
45°	7164.8	7236.4	7251.5	7240.2	6318.3
47.5°	6806.9	6884.7	6893.5	6011.9	5842.4
50°	6412.5	6510.5	6509.2	5556.0	5510.8
52.5°	6001.9	6096.0	6092.3	5199.4	5169.2
55°	5559.8	5661.5	4972.0	4827.6	4830.1
57.5°	5108.9	5181.8	4460.9	4467.2	4384.3
60°	4619.1	4688.2	4028.9	3989.9	3846.8
62.5°	4128.1	4157.0	3610.7	3421.0	3148.5
65°	3610.7	3640.8	3161.1	2599.7	2251.8
67.5°	3079.4	3109.6	2623.5	1934.1	1907.7
70°	2544.4	2298.3	1990.6	1611.3	1623.9
72.5°	2016.9	1765.8	1301.1	1248.3	901.7
75°	1520.9	1332.5	1011.0	679.4	660.6
77.5°	1058.7	918.0	541.3	463.4	433.3
80°	656.8	460.9	324.0	287.6	276.3
82.5°	332.8	265.0	175.8	175.8	175.8
85°	135.6	96.7	99.2	108.0	109.3
87.5°	28.9	38.9	47.7	49.0	47.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)