

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-UNV-L750-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 (P23760)
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-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

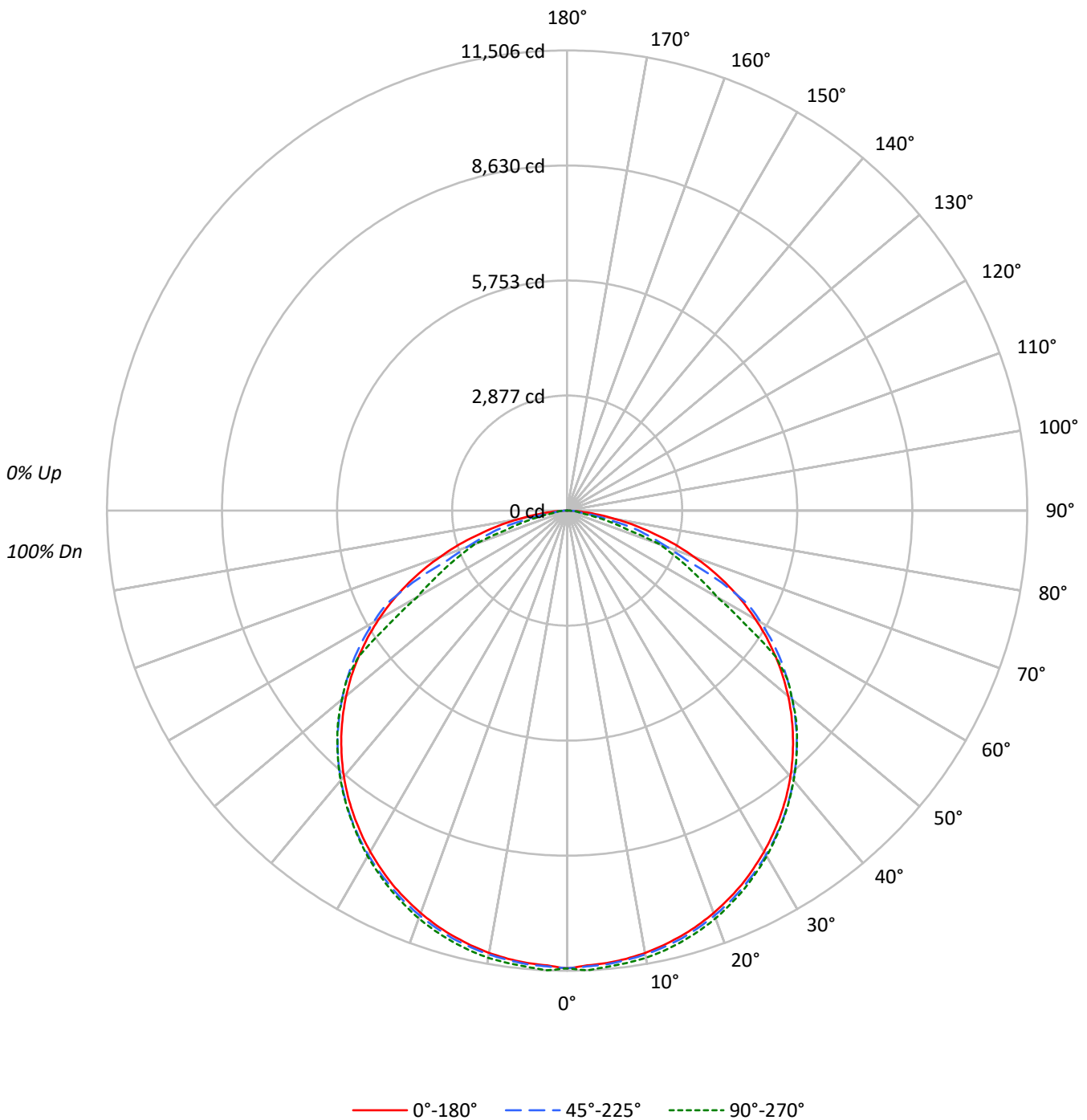
Lumens per Lamp: N/A
Luminaire Lumens: 33042.0 lumens
Efficiency: N/A
Efficacy: 183.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15400	15400	15400
5°	15336	15379	15466
10°	15345	15399	15515
15°	15341	15423	15530
20°	15333	15431	15539
25°	15327	15437	15523
30°	15301	15450	15507
35°	15281	15457	15477
40°	15254	15456	15480
45°	15196	15449	15468
50°	15105	15384	15381
55°	14929	15303	14923
60°	14652	15077	11676
65°	14163	13569	10520
70°	13268	10440	9695
75°	11749	9102	6042
80°	9675	5359	2700
85°	6376	3284	3538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1086.1	3.3
10°-20°	3133.5	9.5
20°-30°	4804.1	14.5
30°-40°	5891.7	17.8
40°-50°	6256.1	18.9
50°-60°	5714.1	17.3
60°-70°	3979.3	12.0
70°-80°	1856.0	5.6
80°-90°	321.1	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°	9023.7	27.3
0°-40°	14915.5	45.1
0°-60°	26885.7	81.4
0°-90°	33042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33042.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11445	11445	11445	11445	11445	
5°	11355	11434	11386	11441	11451	###
15°	11013	11090	11072	11139	11149	3110
25°	10324	10415	10398	10475	10456	4758
35°	9304	9410	9410	9474	9423	5822
45°	7986	8107	8119	8171	8129	6159
55°	6364	6492	6523	6534	6362	5684
65°	4449	4586	4262	3389	3304	4389
75°	2260	2403	1751	1213	1162	2416
85°	413	272	213	228	229	534
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11445.4	11445.4	11445.4	11445.4	11445.4
2.5°	11385.1	11457.8	11409.8	11461.9	11505.8
5°	11354.9	11434.5	11386.4	11441.3	11450.9
7.5°	11305.5	11381.0	11337.0	11397.4	11412.5
10°	11231.4	11305.5	11271.2	11342.5	11356.3
12.5°	11131.2	11206.7	11180.6	11258.8	11268.4
15°	11013.2	11090.1	11072.2	11139.4	11149.1
17.5°	10874.6	10954.2	10933.6	11005.0	11011.8
20°	10708.6	10795.0	10777.2	10860.9	10852.7
22.5°	10522.0	10613.9	10600.2	10683.9	10659.2
25°	10324.4	10414.9	10398.5	10475.3	10456.1
27.5°	10092.5	10192.6	10177.5	10251.6	10221.5
30°	9848.2	9949.8	9944.3	10011.5	9981.3
32.5°	9584.8	9693.2	9687.7	9753.5	9706.9
35°	9303.5	9410.5	9410.5	9473.6	9422.8
37.5°	9005.7	9114.1	9115.5	9175.8	9127.8
40°	8684.6	8793.0	8799.9	8857.5	8813.6
42.5°	8347.0	8465.0	8470.5	8522.7	8481.5
45°	7986.2	8106.9	8119.3	8171.4	8128.9
47.5°	7608.8	7730.9	7741.9	7798.2	7768.0
50°	7216.4	7334.4	7349.5	7396.1	7348.1
52.5°	6802.0	6922.7	6943.3	6972.1	6950.1
55°	6364.2	6491.8	6523.4	6534.4	6361.5
57.5°	5911.4	6041.8	6071.9	5819.5	5263.7
60°	5444.9	5573.8	5602.7	4734.1	4338.9
62.5°	4959.1	5085.3	5116.9	3923.1	3796.9
65°	4448.6	4585.9	4262.0	3389.3	3304.2
67.5°	3924.5	4065.8	3223.3	2904.9	2854.2
70°	3372.8	3515.6	2653.8	2476.8	2464.5
72.5°	2843.2	2948.8	2177.7	1877.2	1580.8
75°	2260.0	2402.7	1750.9	1213.0	1162.2
77.5°	1752.3	1514.9	1056.6	889.2	701.2
80°	1248.7	1012.7	691.6	369.1	348.5
82.5°	791.8	661.4	271.7	278.6	290.9
85°	413.0	271.7	212.7	227.8	229.2
87.5°	133.1	116.6	127.6	126.2	124.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)