

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-LD5-30SE-W-CLI-UNV-L735-ED3-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 (P23766)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30SE-W-CLI-UNV-L735-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

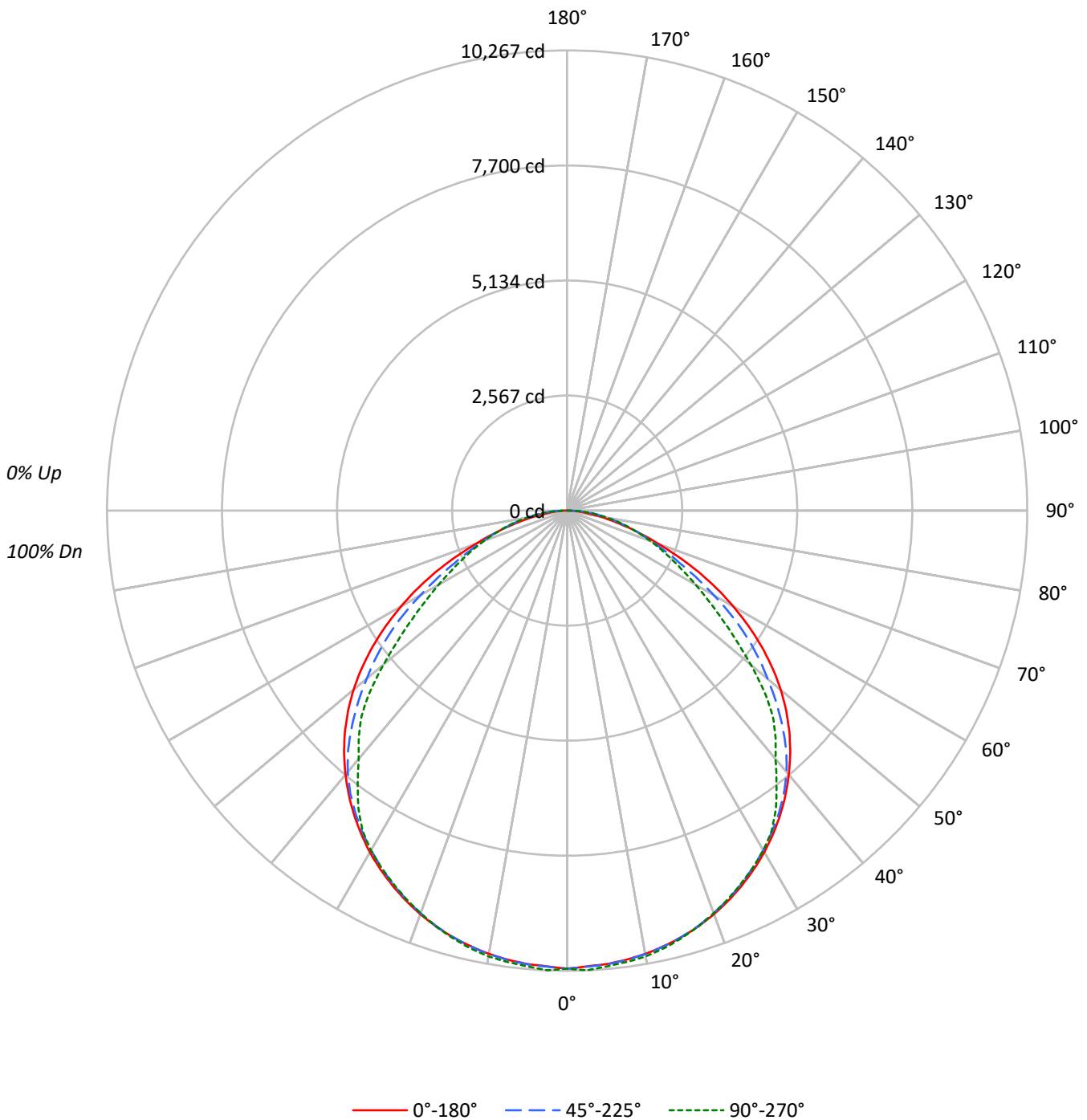
Lumens per Lamp: N/A
Luminaire Lumens: 27458.0 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 193
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	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13751	13751	13751
5°	13714	13724	13785
10°	13722	13728	13800
15°	13723	13722	13754
20°	13720	13688	13692
25°	13699	13648	13632
30°	13677	13595	13602
35°	13613	13528	13337
40°	13516	13378	12703
45°	13344	12917	12352
50°	13023	12230	11187
55°	12430	11437	9892
60°	11536	10205	8921
65°	10253	8835	8203
70°	8509	7896	7732
75°	6882	7227	7315
80°	5466	6912	6883
85°	4281	7424	7084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	969.2	3.5
10°-20°	2787.9	10.2
20°-30°	4251.0	15.5
30°-40°	5143.1	18.7
40°-50°	5209.5	19.0
50°-60°	4305.7	15.7
60°-70°	2843.9	10.4
70°-80°	1482.9	5.4
80°-90°	464.9	1.7
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°	8008.1	29.2
0°-40°	13151.1	47.9
0°-60°	22666.3	82.5
0°-90°	27458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27458.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10220	10220	10220	10220	10220	
5°	10154	10215	10161	10205	10206	966
15°	9852	9902	9851	9881	9874	2782
25°	9228	9264	9193	9216	9182	4255
35°	8288	8299	8236	8225	8120	5184
45°	7013	6994	6788	6577	6492	5400
55°	5299	5220	4876	4402	4217	4723
65°	3221	3127	2775	2595	2576	3181
75°	1324	1347	1390	1408	1407	1442
85°	277	357	481	477	459	337
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10220.0	10220.0	10220.0	10220.0	10220.0
2.5°	10177.1	10237.2	10186.9	10231.1	10266.6
5°	10153.8	10215.1	10161.1	10205.3	10206.5
7.5°	10108.4	10169.7	10114.5	10158.7	10157.5
10°	10043.4	10101.0	10048.3	10101.0	10101.0
12.5°	9955.0	10011.5	9959.9	10009.0	10001.6
15°	9852.0	9902.3	9850.7	9881.4	9874.0
17.5°	9730.5	9775.9	9718.2	9744.0	9729.3
20°	9582.0	9623.8	9560.0	9593.1	9562.4
22.5°	9415.2	9454.4	9389.4	9414.0	9379.6
25°	9227.5	9264.3	9193.1	9216.4	9182.1
27.5°	9025.0	9058.2	8978.4	9006.6	8979.6
30°	8803.0	8818.9	8750.2	8787.0	8755.1
32.5°	8555.1	8564.9	8504.8	8538.0	8484.0
35°	8287.7	8298.7	8236.1	8225.1	8119.6
37.5°	8001.8	8006.7	7947.8	7848.4	7674.2
40°	7695.1	7692.6	7616.6	7387.1	7232.5
42.5°	7367.5	7366.3	7232.5	6971.2	6882.9
45°	7012.9	6994.5	6788.4	6577.4	6491.5
47.5°	6632.6	6613.0	6324.6	6156.6	5961.5
50°	6221.6	6187.2	5842.5	5613.0	5344.3
52.5°	5778.7	5725.9	5375.0	5004.5	4750.5
55°	5299.0	5220.4	4875.7	4402.1	4216.8
57.5°	4799.6	4683.1	4348.1	3886.8	3735.9
60°	4286.8	4156.7	3792.3	3413.2	3315.1
62.5°	3759.2	3630.4	3258.6	2972.8	2918.8
65°	3220.6	3127.4	2775.2	2594.9	2576.5
67.5°	2668.5	2635.4	2366.7	2274.7	2267.3
70°	2163.0	2156.9	2007.2	1960.6	1965.5
72.5°	1728.7	1721.3	1699.2	1675.9	1677.2
75°	1323.8	1347.1	1390.1	1408.5	1407.2
77.5°	987.6	1035.5	1126.3	1163.1	1157.0
80°	705.5	776.6	892.0	926.3	888.3
82.5°	469.9	544.7	680.9	685.8	655.2
85°	277.3	357.0	480.9	477.3	458.9
87.5°	137.4	214.7	288.3	276.1	263.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)