

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-L740-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-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

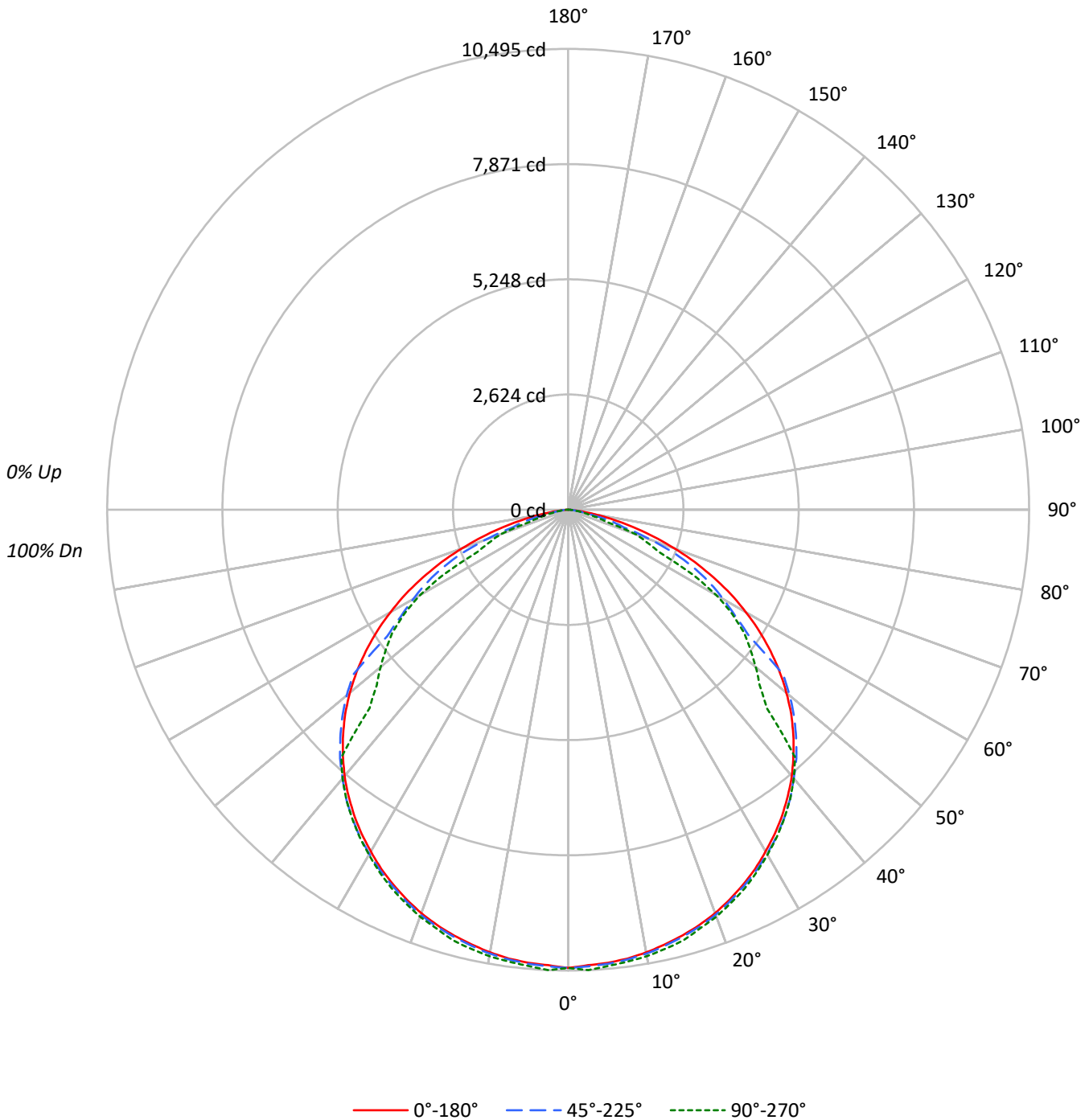
Lumens per Lamp: N/A
Luminaire Lumens: 28208.0 lumens
Efficiency: N/A
Efficacy: 156.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	14039	14039	14039
5°	13988	14019	14087
10°	13986	14026	14108
15°	13986	14028	14141
20°	14003	14056	14121
25°	13987	14040	14125
30°	13961	14063	14095
35°	13954	14081	14092
40°	13911	14033	14033
45°	13791	13958	12162
50°	13578	13783	11669
55°	13193	11798	11462
60°	12574	10967	10471
65°	11628	10181	7252
70°	10126	7921	6462
75°	7998	5317	3474
80°	5148	2540	2166
85°	2118	1550	1706



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	989.8	3.5
10°-20°	2852.8	10.1
20°-30°	4373.8	15.5
30°-40°	5360.8	19.0
40°-50°	5511.3	19.5
50°-60°	4703.6	16.7
60°-70°	3109.7	11.0
70°-80°	1152.1	4.1
80°-90°	154.1	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°	8216.4	29.1
0°-40°	13577.2	48.1
0°-60°	23792.2	84.3
0°-90°	28208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28208.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10434	10434	10434	10434	10434	
5°	10356	10429	10379	10420	10430	985
15°	10040	10101	10071	10147	10152	2836
25°	9422	9471	9457	9542	9514	4344
35°	8495	8554	8573	8626	8579	5314
45°	7248	7320	7336	7324	6392	5585
55°	5624	5727	5030	4884	4886	5018
65°	3652	3683	3198	2630	2278	3601
75°	1538	1348	1023	687	668	1651
85°	137	98	100	109	110	227
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10434.0	10434.0	10434.0	10434.0	10434.0
2.5°	10383.2	10448.0	10409.9	10458.2	10495.0
5°	10356.5	10429.0	10379.4	10420.1	10430.2
7.5°	10310.8	10378.1	10332.4	10385.8	10378.1
10°	10237.1	10298.1	10266.3	10322.2	10326.0
12.5°	10143.1	10204.1	10174.9	10243.5	10242.2
15°	10040.2	10101.2	10070.7	10146.9	10152.0
17.5°	9919.5	9975.4	9952.5	10022.4	9994.5
20°	9779.8	9828.0	9816.6	9882.7	9862.3
22.5°	9608.3	9657.8	9646.4	9722.6	9692.1
25°	9421.5	9471.0	9457.1	9542.2	9514.2
27.5°	9219.5	9266.5	9265.2	9345.3	9302.1
30°	8985.7	9048.0	9051.8	9123.0	9072.1
32.5°	8754.5	8813.0	8829.5	8881.6	8838.4
35°	8495.4	8553.8	8572.9	8626.2	8579.2
37.5°	8215.9	8265.4	8299.7	8339.1	8302.3
40°	7919.9	7964.3	7989.7	8038.0	7989.7
42.5°	7589.5	7653.1	7688.6	7722.9	7644.2
45°	7247.8	7320.2	7335.5	7324.0	6391.5
47.5°	6885.7	6964.5	6973.4	6081.5	5910.0
50°	6486.8	6585.9	6584.6	5620.4	5574.6
52.5°	6071.4	6166.7	6162.9	5259.6	5229.1
55°	5624.2	5727.1	5029.6	4883.5	4886.1
57.5°	5168.1	5241.8	4512.6	4518.9	4435.1
60°	4672.6	4742.5	4075.5	4036.2	3891.3
62.5°	4175.9	4205.1	3652.5	3460.6	3185.0
65°	3652.5	3683.0	3197.7	2629.8	2277.9
67.5°	3115.1	3145.6	2653.9	1956.5	1929.8
70°	2573.9	2324.9	2013.6	1630.0	1642.7
72.5°	2040.3	1786.2	1316.2	1262.8	912.2
75°	1538.5	1347.9	1022.7	687.3	668.2
77.5°	1071.0	928.7	547.6	468.8	438.3
80°	664.4	466.2	327.8	290.9	279.5
82.5°	336.7	268.1	177.9	177.9	177.9
85°	137.2	97.8	100.4	109.3	110.5
87.5°	29.2	39.4	48.3	49.5	48.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)