

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-CLI-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 (P23766)
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-CLI-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

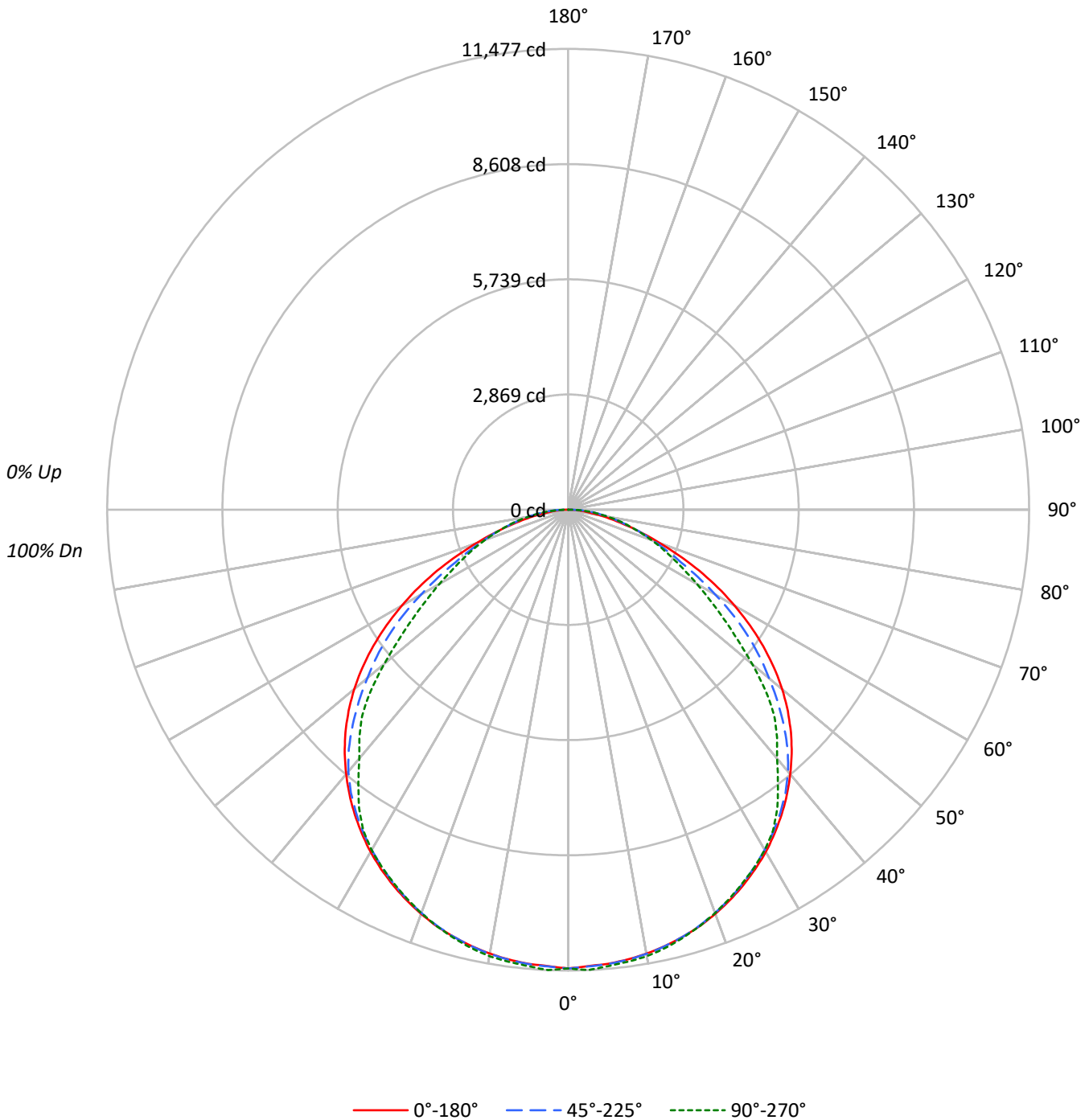
Lumens per Lamp: N/A
Luminaire Lumens: 30696.0 lumens
Efficiency: N/A
Efficacy: 170.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-30HE-W-CLI-UNV-L750-ED2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30HE-W-CLI-UNV-L750-ED2-U

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°	15372	15372	15372
5°	15331	15342	15411
10°	15340	15347	15428
15°	15342	15340	15376
20°	15338	15303	15307
25°	15314	15257	15239
30°	15290	15198	15206
35°	15218	15124	14909
40°	15110	14955	14201
45°	14918	14440	13809
50°	14559	13672	12506
55°	13896	12786	11058
60°	12896	11408	9973
65°	11463	9877	9170
70°	9513	8827	8644
75°	7693	8079	8178
80°	6111	7726	7694
85°	4786	8301	7920



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30HE-W-CLI-UNV-L750-ED2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1083.5	3.5
10°-20°	3116.6	10.2
20°-30°	4752.3	15.5
30°-40°	5749.6	18.7
40°-50°	5823.8	19.0
50°-60°	4813.5	15.7
60°-70°	3179.2	10.4
70°-80°	1657.8	5.4
80°-90°	519.7	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°	8952.4	29.2
0°-40°	14702.0	47.9
0°-60°	25339.3	82.5
0°-90°	30696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11425	11425	11425	11425	11425	
5°	11351	11420	11359	11409	11410	###
15°	11014	11070	11012	11047	11038	3110
25°	10316	10357	10277	10303	10265	4757
35°	9265	9277	9207	9195	9077	5795
45°	7840	7819	7589	7353	7257	6037
55°	5924	5836	5451	4921	4714	5280
65°	3600	3496	3102	2901	2880	3556
75°	1480	1506	1554	1575	1573	1612
85°	310	399	538	534	513	376
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30HE-W-CLI-UNV-L750-ED2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11425.2	11425.2	11425.2	11425.2	11425.2
2.5°	11377.2	11444.4	11388.2	11437.6	11477.3
5°	11351.2	11419.7	11359.4	11408.8	11410.1
7.5°	11300.4	11369.0	11307.3	11356.6	11355.3
10°	11227.7	11292.2	11233.2	11292.2	11292.2
12.5°	11129.0	11192.1	11134.5	11189.3	11181.1
15°	11013.8	11070.0	11012.4	11046.7	11038.4
17.5°	10878.0	10928.7	10864.3	10893.1	10876.6
20°	10712.0	10758.6	10687.3	10724.3	10690.1
22.5°	10525.5	10569.4	10496.7	10524.1	10485.7
25°	10315.6	10356.8	10277.2	10303.3	10264.9
27.5°	10089.3	10126.3	10037.2	10068.7	10038.6
30°	9841.1	9858.9	9782.1	9823.2	9787.6
32.5°	9564.0	9575.0	9507.8	9544.8	9484.4
35°	9265.0	9277.3	9207.4	9195.0	9077.1
37.5°	8945.4	8950.9	8885.1	8774.0	8579.2
40°	8602.5	8599.8	8514.7	8258.3	8085.4
42.5°	8236.3	8234.9	8085.4	7793.3	7694.5
45°	7839.9	7819.4	7588.9	7353.0	7257.0
47.5°	7414.7	7392.8	7070.5	6882.6	6664.5
50°	6955.3	6916.9	6531.4	6275.0	5974.6
52.5°	6460.1	6401.1	6008.9	5594.7	5310.7
55°	5923.8	5836.1	5450.6	4921.2	4714.1
57.5°	5365.6	5235.3	4860.9	4345.2	4176.4
60°	4792.3	4646.9	4239.5	3815.7	3706.0
62.5°	4202.5	4058.5	3642.9	3323.3	3263.0
65°	3600.4	3496.1	3102.5	2900.9	2880.3
67.5°	2983.2	2946.1	2645.8	2542.9	2534.7
70°	2418.1	2411.2	2243.9	2191.8	2197.3
72.5°	1932.6	1924.3	1899.6	1873.6	1874.9
75°	1479.9	1506.0	1554.0	1574.6	1573.2
77.5°	1104.1	1157.6	1259.1	1300.3	1293.4
80°	788.7	868.2	997.1	1035.5	993.0
82.5°	525.3	609.0	761.2	766.7	732.4
85°	310.0	399.1	537.7	533.5	513.0
87.5°	153.6	240.0	322.3	308.6	294.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)