

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-N-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 (P23769)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-N-CLI-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

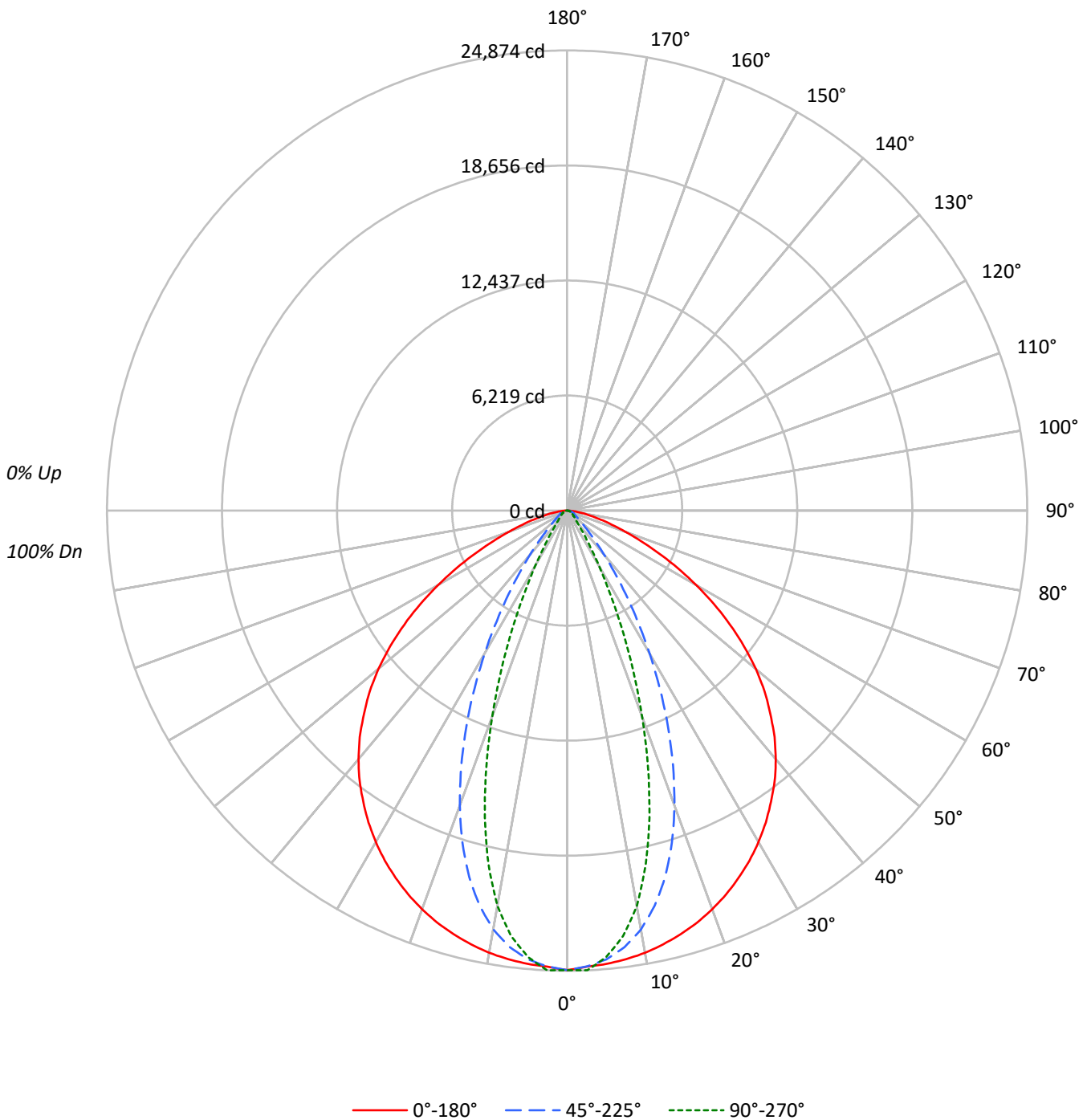
Lumens per Lamp: N/A
Luminaire Lumens: 27194.0 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33422	33422	33422
5°	33221	32890	32717
10°	33165	31401	29631
15°	33032	28543	23930
20°	32833	24287	16961
25°	32540	19151	10248
30°	32144	13822	5267
35°	31564	9036	2630
40°	30816	5428	1535
45°	29535	3241	1148
50°	27857	2120	964
55°	25212	1608	841
60°	21666	1369	767
65°	17428	1250	725
70°	13130	1338	721
75°	9658	1272	741
80°	7066	1267	811
85°	5292	1535	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2287.6	8.4
10°-20°	5691.1	20.9
20°-30°	6303.7	23.2
30°-40°	5050.4	18.6
40°-50°	3605.3	13.3
50°-60°	2315.8	8.5
60°-70°	1255.0	4.6
70°-80°	536.4	2.0
80°-90°	148.7	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°	14282.4	52.5
0°-40°	19332.8	71.1
0°-60°	25253.8	92.9
0°-90°	27194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24840	24840	24840	24840	24840	
5°	24596	24688	24352	24275	24224	###
15°	23713	22972	20491	18108	17180	6691
25°	21918	19326	12900	8405	6903	10097
35°	19217	13900	5502	2219	1601	12015
45°	15522	8024	1703	725	603	11964
55°	10748	3587	686	421	358	9578
65°	5474	1473	392	271	228	5482
75°	1858	539	245	170	143	2064
85°	343	143	99	82	68	419
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24839.8	24839.8	24839.8	24839.8	24839.8
2.5°	24676.2	24830.6	24664.4	24767.8	24873.8
5°	24596.4	24688.0	24351.8	24274.6	24223.5
7.5°	24457.7	24431.6	23799.6	23390.1	23192.6
10°	24274.6	24062.6	22983.2	22083.1	21688.0
12.5°	24012.9	23575.9	21877.7	20297.3	19627.4
15°	23713.3	22971.5	20490.9	18108.5	17179.5
17.5°	23354.8	22265.0	18833.3	15761.3	14535.4
20°	22930.9	21412.0	16962.4	13267.7	11845.5
22.5°	22457.3	20428.1	14959.3	10781.9	9256.4
25°	21918.3	19326.5	12900.0	8404.6	6902.7
27.5°	21336.1	18103.2	10852.5	6279.9	4910.1
30°	20689.8	16779.2	8896.6	4528.1	3389.9
32.5°	19984.6	15371.4	7079.3	3184.4	2318.3
35°	19216.6	13899.6	5501.5	2218.9	1601.4
37.5°	18430.3	12397.6	4155.2	1568.7	1148.7
40°	17544.6	10900.9	3090.3	1148.7	874.0
42.5°	16593.4	9433.0	2286.9	884.4	707.8
45°	15521.9	8023.9	1703.4	724.8	603.1
47.5°	14483.1	6710.4	1293.9	617.5	524.6
50°	13308.2	5525.0	1012.6	539.0	460.5
52.5°	12061.4	4482.3	821.6	474.9	405.6
55°	10747.8	3587.4	685.6	421.3	358.5
57.5°	9417.3	2841.7	586.1	375.5	319.2
60°	8051.4	2272.6	508.9	336.2	285.2
62.5°	6718.2	1817.3	444.8	302.2	255.1
65°	5474.0	1473.2	392.5	270.8	227.6
67.5°	4324.0	1164.4	366.3	243.3	205.4
70°	3337.5	906.7	340.2	217.2	183.2
72.5°	2529.0	696.0	300.9	193.6	162.2
75°	1857.8	539.0	244.7	170.1	142.6
77.5°	1329.3	414.7	198.9	147.8	123.0
80°	911.9	308.8	163.5	126.9	104.7
82.5°	592.7	218.5	132.1	104.7	86.3
85°	342.8	142.6	99.4	82.4	68.0
87.5°	147.8	78.5	68.0	61.5	52.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)