

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-A-UNV-L835-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 (P23761)
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-A-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

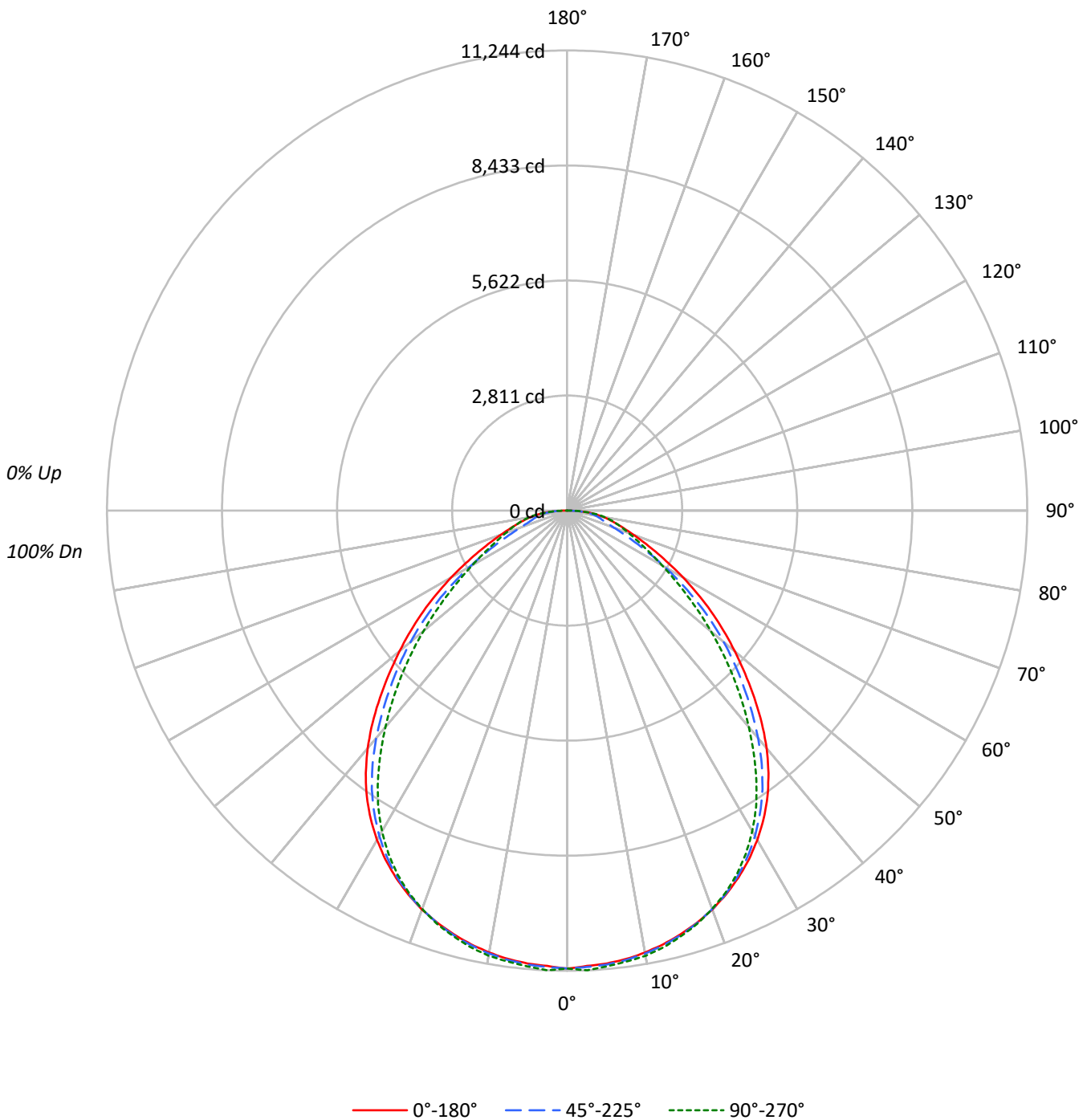
Lumens per Lamp: N/A
Luminaire Lumens: 25704.0 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15055	15055	15055
5°	15002	15036	15097
10°	14981	15015	15091
15°	14931	14960	14996
20°	14852	14842	14831
25°	14691	14641	14558
30°	14437	14263	14055
35°	14018	13666	13245
40°	13321	12749	12137
45°	12306	11619	10916
50°	11187	10463	9602
55°	10059	9058	8300
60°	8802	7403	7202
65°	7589	5821	6500
70°	6766	4751	6265
75°	6482	4638	6547
80°	7011	5485	7294
85°	7870	6604	7949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1060.5	4.1
10°-20°	3035.0	11.8
20°-30°	4540.1	17.7
30°-40°	5179.8	20.2
40°-50°	4715.1	18.3
50°-60°	3462.3	13.5
60°-70°	2044.3	8.0
70°-80°	1171.6	4.6
80°-90°	495.4	1.9
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°	8635.6	33.6
0°-40°	13815.4	53.7
0°-60°	21992.8	85.6
0°-90°	25704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11189	11189	11189	11189	11189	
5°	11107	11177	11133	11177	11178	###
15°	10719	10778	10740	10778	10765	3025
25°	9896	9931	9862	9858	9806	4555
35°	8534	8493	8320	8177	8064	5317
45°	6467	6429	6106	5833	5737	4984
55°	4288	4090	3862	3581	3538	3835
65°	2384	2081	1828	1956	2042	2399
75°	1247	1069	892	1164	1259	1344
85°	510	471	428	505	515	533
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11189.4	11189.4	11189.4	11189.4	11189.4
2.5°	11137.6	11202.0	11161.6	11205.8	11243.6
5°	11107.4	11176.8	11132.6	11176.8	11178.0
7.5°	11051.8	11116.2	11073.3	11121.2	11116.2
10°	10964.8	11029.1	10990.0	11041.7	11045.5
12.5°	10853.7	10915.5	10875.2	10934.5	10924.4
15°	10718.7	10778.0	10740.1	10778.0	10765.4
17.5°	10559.7	10614.0	10564.7	10606.4	10584.9
20°	10372.9	10418.4	10365.4	10404.5	10357.8
22.5°	10149.6	10189.9	10134.4	10155.9	10107.9
25°	9895.9	9931.3	9861.9	9858.1	9806.3
27.5°	9613.3	9632.2	9543.8	9513.6	9454.3
30°	9292.7	9297.8	9180.4	9123.6	9046.7
32.5°	8933.1	8920.5	8770.3	8685.7	8591.1
35°	8534.3	8492.7	8319.8	8177.2	8063.6
37.5°	8083.8	8018.2	7811.2	7600.5	7492.0
40°	7584.1	7507.1	7258.5	6997.3	6910.2
42.5°	7040.2	6974.6	6681.8	6409.3	6323.4
45°	6467.3	6429.4	6106.4	5832.6	5736.7
47.5°	5894.4	5866.6	5551.2	5272.3	5156.2
50°	5344.2	5283.6	4998.4	4693.1	4587.1
52.5°	4810.4	4686.7	4435.6	4122.7	4044.4
55°	4288.0	4089.9	3861.5	3581.3	3538.4
57.5°	3770.6	3514.4	3292.3	3082.9	3081.6
60°	3270.9	2978.1	2751.0	2641.2	2676.5
62.5°	2802.7	2502.4	2256.3	2263.9	2328.2
65°	2383.8	2080.9	1828.5	1956.0	2041.8
67.5°	2024.1	1735.1	1479.0	1716.2	1798.2
70°	1720.0	1458.8	1207.7	1504.2	1592.5
72.5°	1463.8	1244.2	1018.4	1327.5	1417.1
75°	1246.8	1068.8	892.2	1163.5	1259.4
77.5°	1070.1	912.4	800.1	1007.0	1106.7
80°	904.8	766.0	707.9	855.6	941.4
82.5°	716.8	620.9	586.8	695.3	739.5
85°	509.8	470.7	427.8	504.8	514.9
87.5°	280.1	290.2	239.8	290.2	291.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)