

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-AI-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 (P23765)
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-AI-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

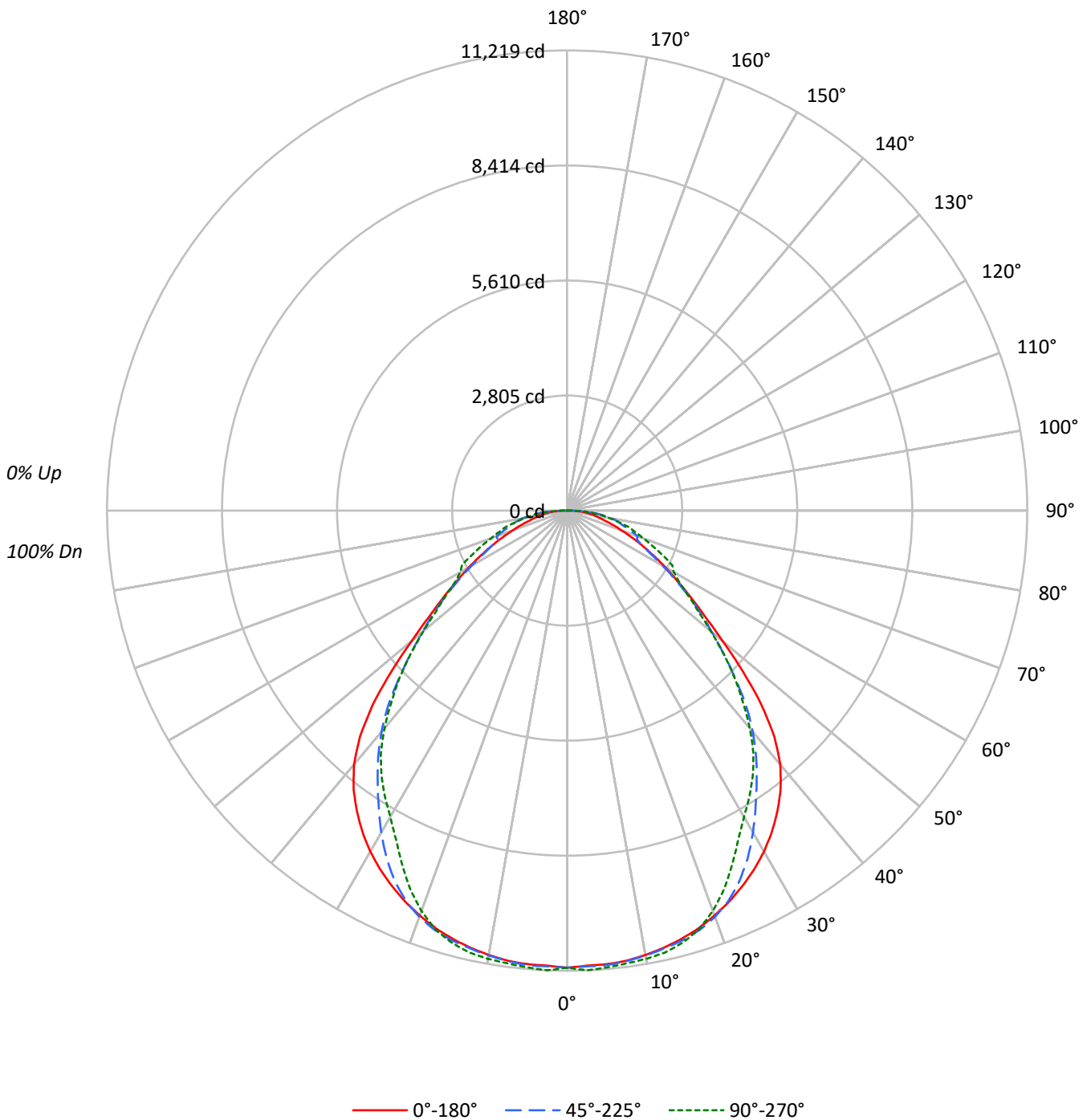
Lumens per Lamp: N/A
Luminaire Lumens: 25795.0 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14994	14994	14994
5°	14994	15026	15099
10°	15031	15050	15160
15°	15054	15110	15184
20°	15039	15095	14871
25°	15001	14776	14133
30°	14912	14079	13393
35°	14688	13233	12957
40°	14197	12373	12169
45°	12760	11048	11007
50°	10349	9623	9557
55°	8594	8434	8431
60°	7440	7223	8075
65°	6448	6408	8140
70°	5560	7189	7759
75°	4986	7367	8089
80°	5182	8673	8116
85°	5883	9994	9273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1061.1	4.1
10°-20°	3064.5	11.9
20°-30°	4551.4	17.6
30°-40°	5167.1	20.0
40°-50°	4619.2	17.9
50°-60°	3193.7	12.4
60°-70°	2107.4	8.2
70°-80°	1421.7	5.5
80°-90°	608.9	2.4
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°	8677.0	33.6
0°-40°	13844.1	53.7
0°-60°	21656.9	84.0
0°-90°	25795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11144	11144	11144	11144	11144	
5°	11101	11170	11125	11171	11180	###
15°	10807	10859	10848	10908	10901	3051
25°	10104	10200	9953	9656	9520	4656
35°	8942	8754	8056	7939	7888	5576
45°	6706	6138	5806	5850	5785	5100
55°	3663	3344	3595	3545	3594	3327
65°	2025	1798	2013	2354	2557	2021
75°	959	1206	1417	1514	1556	1047
85°	381	530	647	651	601	397
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11144.2	11144.2	11144.2	11144.2	11144.2
2.5°	11106.4	11175.8	11124.0	11172.0	11218.7
5°	11101.3	11169.5	11125.3	11170.7	11179.6
7.5°	11069.8	11132.9	11081.1	11125.3	11135.4
10°	11001.6	11076.1	11015.5	11083.7	11096.3
12.5°	10913.3	10989.0	10936.0	11029.4	11034.4
15°	10807.3	10859.0	10847.7	10908.3	10900.7
17.5°	10673.5	10732.8	10724.0	10739.2	10703.8
20°	10503.2	10570.1	10542.3	10472.9	10385.8
22.5°	10320.2	10401.0	10291.2	10115.8	9993.3
25°	10104.4	10200.3	9953.0	9656.4	9520.1
27.5°	9865.9	9951.7	9540.3	9176.9	9035.5
30°	9598.4	9635.0	9062.0	8716.3	8620.3
32.5°	9289.2	9236.2	8550.9	8322.5	8267.0
35°	8942.1	8754.1	8056.3	7938.9	7888.4
37.5°	8550.9	8206.4	7567.9	7513.6	7460.6
40°	8082.8	7574.2	7044.2	7008.8	6928.1
42.5°	7478.3	6886.4	6462.4	6420.8	6348.8
45°	6706.0	6138.1	5806.2	5850.4	5784.8
47.5°	5817.6	5387.2	5176.5	5297.6	5176.5
50°	4944.3	4655.3	4597.3	4707.1	4565.7
52.5°	4228.8	3968.8	4088.7	4107.6	4023.1
55°	3663.4	3344.2	3595.3	3544.8	3594.0
57.5°	3171.3	2814.1	3123.3	3065.3	3234.4
60°	2764.9	2363.6	2684.2	2671.5	3000.9
62.5°	2366.1	2045.6	2303.0	2488.6	2893.6
65°	2025.4	1798.3	2012.8	2353.5	2556.7
67.5°	1698.6	1612.8	1841.2	2030.5	2252.6
70°	1413.4	1457.5	1827.3	1792.0	1972.4
72.5°	1173.6	1323.8	1612.8	1619.1	1746.5
75°	959.1	1206.4	1417.2	1514.3	1556.0
77.5°	797.5	1094.1	1279.6	1313.7	1273.3
80°	668.8	964.1	1119.3	1104.2	1047.4
82.5°	540.1	730.7	882.1	896.0	829.1
85°	381.1	530.0	647.4	651.2	600.7
87.5°	204.4	326.8	392.5	403.8	373.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)