

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-CLWG-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-N-CLWG-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

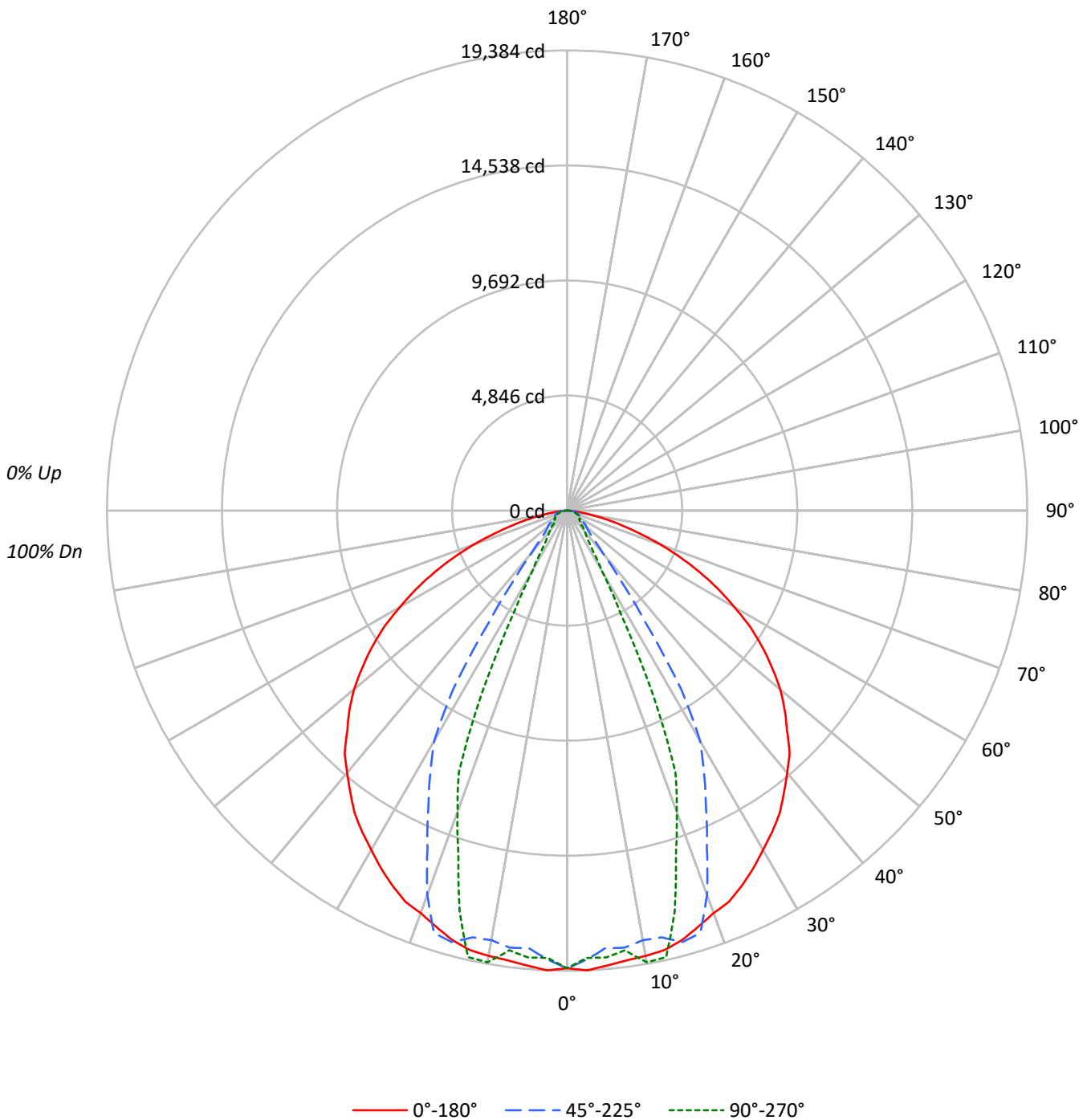
Lumens per Lamp: N/A
Luminaire Lumens: 25917.0 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25939	25939	25939
5°	25982	24992	25519
10°	26019	25112	26401
15°	26077	26213	24364
20°	25831	24655	19338
25°	25868	20554	12632
30°	25636	17412	4538
35°	25609	9433	2552
40°	25319	4112	1999
45°	24928	2541	1567
50°	24539	2214	1479
55°	23574	1920	1448
60°	21873	1720	1556
65°	19661	1944	1700
70°	16489	2090	1753
75°	12326	2384	1898
80°	7741	2768	2164
85°	5155	3470	3169



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1786.8	6.9
10°-20°	5045.6	19.5
20°-30°	6178.5	23.8
30°-40°	4852.0	18.7
40°-50°	3598.1	13.9
50°-60°	2190.4	8.5
60°-70°	1312.1	5.1
70°-80°	719.9	2.8
80°-90°	233.5	0.9
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°	13011.0	50.2
0°-40°	17863.0	68.9
0°-60°	23651.5	91.3
0°-90°	25917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19278	19278	19278	19278	19278	
5°	19237	18713	18504	18708	18894	###
15°	18721	18208	18818	18058	17491	5271
25°	17424	17479	13845	10859	8509	8021
35°	15591	14183	5743	1922	1554	9728
45°	13100	9407	1336	1012	824	10130
55°	10050	2592	818	692	617	8943
65°	6175	764	611	574	534	6101
75°	2371	482	459	399	365	2567
85°	334	262	225	207	205	407
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19278.4	19278.4	19278.4	19278.4	19278.4
2.5°	19383.6	19122.5	18922.4	18810.6	18856.1
5°	19236.8	18713.2	18504.0	18708.0	18893.8
7.5°	19109.5	18331.2	18567.7	18585.9	18683.3
10°	19044.5	18294.8	18380.6	18784.6	19323.8
12.5°	18958.7	18379.3	18409.2	18960.0	19264.1
15°	18721.0	18207.8	18818.4	18058.4	17490.6
17.5°	18374.1	17807.6	18646.9	15997.7	15226.0
20°	18040.2	17372.4	17219.0	14250.2	13505.8
22.5°	17824.5	17306.1	15381.9	12697.6	11928.5
25°	17424.3	17478.9	13844.9	10859.2	8508.8
27.5°	16983.9	17072.2	12485.9	7242.1	4874.8
30°	16500.6	16601.9	11207.4	4279.7	2920.7
32.5°	16062.7	15491.0	8950.6	2670.0	2030.7
35°	15591.1	14182.7	5742.7	1921.6	1553.9
37.5°	14997.3	12808.1	3635.3	1520.1	1304.5
40°	14415.2	11573.8	2341.3	1298.0	1138.1
42.5°	13870.9	10556.5	1703.3	1134.3	1027.7
45°	13100.4	9406.6	1335.6	1012.1	823.7
47.5°	12433.9	8058.0	1168.0	856.2	710.7
50°	11723.2	6161.1	1057.6	761.4	706.8
52.5°	10880.0	4030.3	977.0	728.9	660.0
55°	10049.7	2592.0	818.5	692.5	617.1
57.5°	9153.3	1643.6	722.4	671.7	644.4
60°	8128.1	1108.3	639.2	636.6	578.2
62.5°	7179.7	910.8	617.1	610.7	547.0
65°	6175.4	764.0	610.7	574.3	534.0
67.5°	5172.3	654.8	552.2	524.9	489.8
70°	4191.4	599.0	531.4	519.7	445.6
72.5°	3183.2	493.7	471.6	440.4	370.3
75°	2371.1	482.0	458.6	398.9	365.1
77.5°	1604.6	444.3	417.1	357.3	330.0
80°	999.1	408.0	357.3	313.1	279.3
82.5°	593.8	340.4	293.6	258.6	236.5
85°	333.9	262.4	224.8	206.6	205.3
87.5°	71.5	94.8	75.4	71.5	50.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)