

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-LD5-30SE-N-CL-UNV-L835-ED3-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 (P23768)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30SE-N-CL-UNV-L835-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

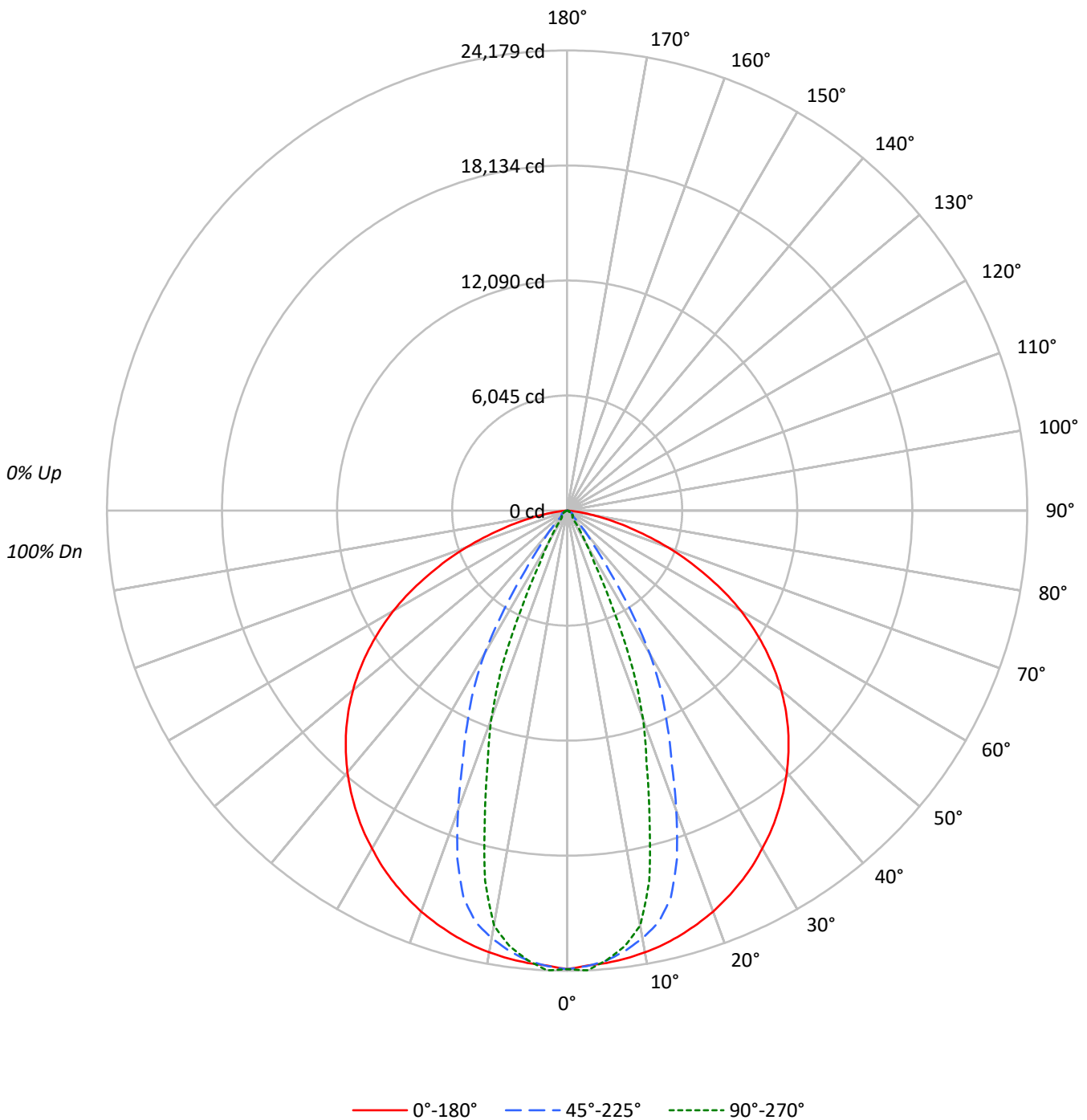
Lumens per Lamp: N/A
Luminaire Lumens: 25773.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 193
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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90					90			
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81					81			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66					66			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47					47			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32424	32424	32424
5°	32225	32057	32033
10°	32203	31170	30251
15°	32166	29311	23260
20°	32104	23987	16684
25°	32003	18481	8478
30°	31852	13488	3085
35°	31738	6194	1074
40°	31543	2811	741
45°	31262	1049	751
50°	30763	762	790
55°	29853	801	602
60°	28369	856	531
65°	25727	652	432
70°	22058	471	398
75°	16860	417	378
80°	10549	392	411
85°	3331	457	553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2243.5	8.7
10°-20°	5651.7	21.9
20°-30°	6154.9	23.9
30°-40°	4604.2	17.9
40°-50°	3310.5	12.8
50°-60°	2033.2	7.9
60°-70°	1169.9	4.5
70°-80°	522.2	2.0
80°-90°	82.8	0.3
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°	14050.2	54.5
0°-40°	18654.4	72.4
0°-60°	23998.1	93.1
0°-90°	25773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24098	24098	24098	24098	24098	
5°	23859	23971	23735	23757	23717	###
15°	23092	22650	21043	18072	16698	6519
25°	21557	20010	12449	7987	5711	9937
35°	19322	13858	3771	1109	654	12087
45°	16429	7786	551	408	395	12657
55°	12726	1618	342	330	256	11346
65°	8081	178	205	170	136	7999
75°	3243	107	80	83	73	3519
85°	216	21	30	38	36	430
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24098.4	24098.4	24098.4	24098.4	24098.4
2.5°	23930.7	24087.3	23955.4	24073.8	24178.6
5°	23859.2	23971.4	23734.7	23756.9	23717.4
7.5°	23735.9	23763.0	23335.1	23169.9	23089.7
10°	23570.6	23497.9	22814.7	22421.3	22141.4
12.5°	23362.2	23121.8	22167.3	20762.7	19925.4
15°	23092.2	22649.5	21042.7	18072.0	16698.2
17.5°	22770.3	22156.2	19180.6	15061.8	13873.1
20°	22421.3	21611.2	16752.5	12806.4	11652.1
22.5°	22009.5	20914.4	14357.7	10650.8	9066.2
25°	21556.9	20010.5	12448.8	7987.2	5710.8
27.5°	21068.6	18818.0	10681.6	4898.1	3087.8
30°	20501.3	17366.6	8681.5	2748.7	1985.4
32.5°	19947.6	15674.7	6201.6	1831.2	1268.9
35°	19322.4	13858.3	3771.0	1108.6	653.6
37.5°	18660.2	12207.1	2360.3	603.0	451.3
40°	17958.5	10640.9	1600.6	427.9	421.7
42.5°	17208.8	9224.0	1002.6	406.9	420.5
45°	16429.4	7786.2	551.2	408.2	394.6
47.5°	15583.5	6225.0	384.7	386.0	384.7
50°	14696.8	4465.3	363.8	381.0	377.3
52.5°	13741.1	2772.1	365.0	372.4	334.2
55°	12726.2	1617.9	341.6	330.5	256.5
57.5°	11659.5	1008.7	334.2	272.5	230.6
60°	10542.3	532.7	318.2	245.4	197.3
62.5°	9352.3	262.7	255.3	209.6	161.5
65°	8080.9	177.6	204.7	170.2	135.6
67.5°	6852.7	160.3	154.1	139.3	118.4
70°	5607.2	146.7	119.6	122.1	101.1
72.5°	4385.1	133.2	96.2	104.8	85.1
75°	3243.2	107.3	80.2	82.6	72.8
77.5°	2256.7	83.9	62.9	70.3	67.8
80°	1361.4	53.0	50.6	58.0	53.0
82.5°	659.7	34.5	39.5	45.6	41.9
85°	215.8	21.0	29.6	38.2	35.8
87.5°	27.1	12.3	24.7	33.3	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)