

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-LD5-12HE-N-CL-UNV-L835-ED1-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-LD5-12HE-N-CL-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

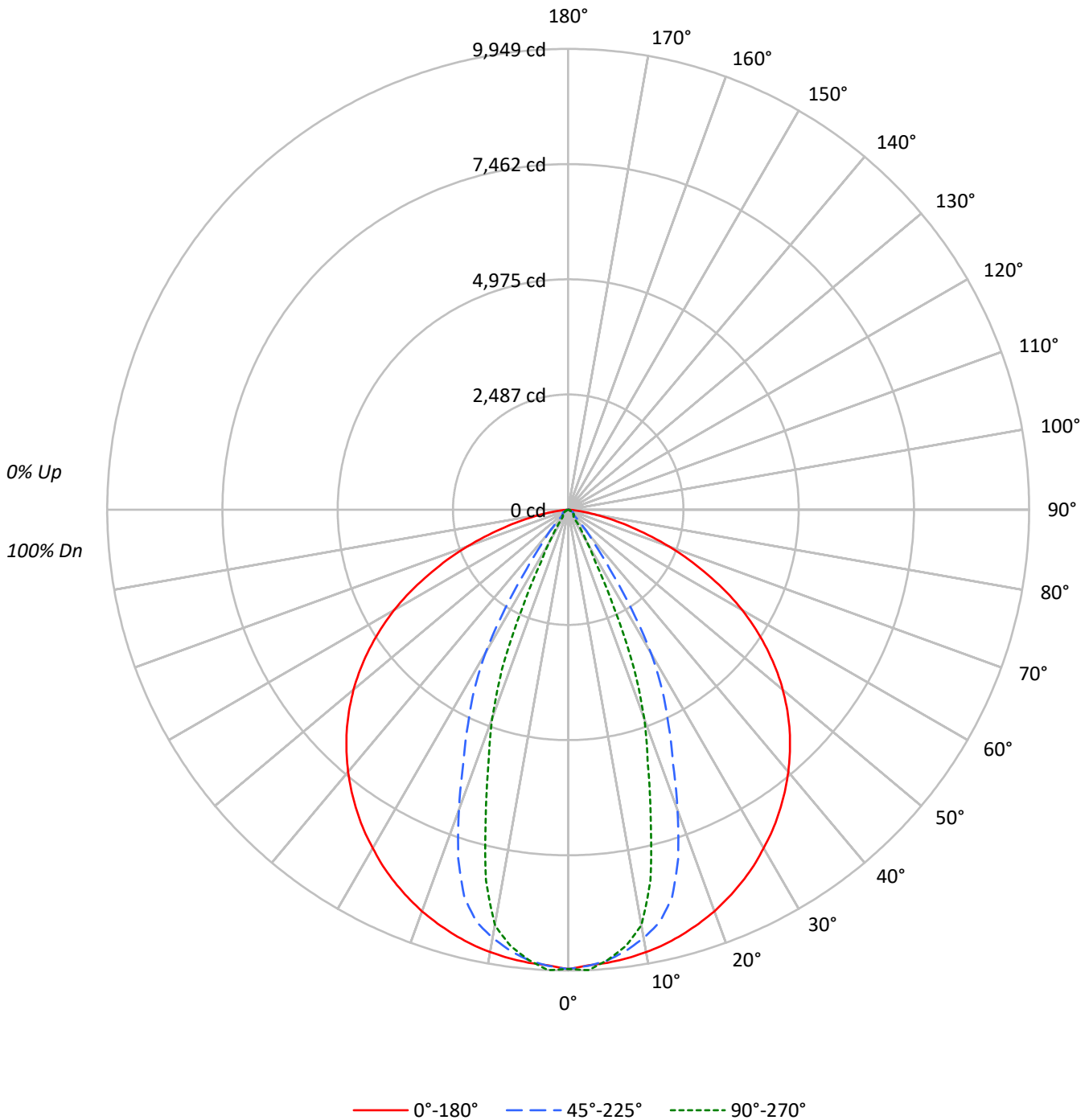
Lumens per Lamp: N/A
Luminaire Lumens: 10605.0 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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°	13342	13342	13342
5°	13260	13191	13181
10°	13251	12826	12447
15°	13236	12061	9571
20°	13210	9870	6865
25°	13169	7605	3489
30°	13106	5550	1269
35°	13059	2549	442
40°	12979	1157	305
45°	12864	432	309
50°	12658	313	325
55°	12284	330	247
60°	11673	352	219
65°	10586	268	178
70°	9076	194	164
75°	6937	172	155
80°	4341	161	169
85°	1371	188	227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	923.2	8.7
10°-20°	2325.5	21.9
20°-30°	2532.6	23.9
30°-40°	1894.5	17.9
40°-50°	1362.2	12.8
50°-60°	836.6	7.9
60°-70°	481.4	4.5
70°-80°	214.9	2.0
80°-90°	34.1	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°	5781.3	54.5
0°-40°	7675.9	72.4
0°-60°	9874.7	93.1
0°-90°	10605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9916	9916	9916	9916	9916	
5°	9818	9864	9766	9775	9759	933
15°	9502	9320	8659	7436	6871	2682
25°	8870	8234	5122	3286	2350	4089
35°	7951	5702	1552	456	269	4973
45°	6760	3204	227	168	162	5208
55°	5237	666	141	136	106	4669
65°	3325	73	84	70	56	3291
75°	1334	44	33	34	30	1448
85°	89	9	12	16	15	177
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9916.0	9916.0	9916.0	9916.0	9916.0
2.5°	9846.9	9911.4	9857.1	9905.8	9948.9
5°	9817.5	9863.7	9766.3	9775.4	9759.2
7.5°	9766.8	9777.9	9601.9	9533.9	9500.9
10°	9698.8	9668.8	9387.7	9225.9	9110.7
12.5°	9613.0	9514.1	9121.3	8543.4	8198.9
15°	9501.9	9319.7	8658.6	7436.2	6870.9
17.5°	9369.5	9116.8	7892.4	6197.6	5708.4
20°	9225.9	8892.5	6893.3	5269.5	4794.6
22.5°	9056.4	8605.8	5907.9	4382.6	3730.5
25°	8870.2	8233.9	5122.4	3286.5	2349.9
27.5°	8669.2	7743.2	4395.3	2015.5	1270.6
30°	8435.8	7146.0	3572.2	1131.0	816.9
32.5°	8208.0	6449.8	2551.8	753.5	522.1
35°	7950.7	5702.4	1551.7	456.2	268.9
37.5°	7678.2	5022.9	971.2	248.1	185.7
40°	7389.5	4378.5	658.6	176.1	173.5
42.5°	7081.0	3795.5	412.5	167.4	173.0
45°	6760.3	3203.8	226.8	168.0	162.4
47.5°	6412.2	2561.4	158.3	158.8	158.3
50°	6047.4	1837.4	149.7	156.8	155.3
52.5°	5654.2	1140.7	150.2	153.2	137.5
55°	5236.6	665.7	140.6	136.0	105.5
57.5°	4797.6	415.1	137.5	112.1	94.9
60°	4337.9	219.2	130.9	101.0	81.2
62.5°	3848.3	108.1	105.0	86.3	66.5
65°	3325.1	73.1	84.2	70.0	55.8
67.5°	2819.7	66.0	63.4	57.3	48.7
70°	2307.2	60.4	49.2	50.2	41.6
72.5°	1804.4	54.8	39.6	43.1	35.0
75°	1334.5	44.1	33.0	34.0	29.9
77.5°	928.6	34.5	25.9	28.9	27.9
80°	560.2	21.8	20.8	23.8	21.8
82.5°	271.5	14.2	16.2	18.8	17.3
85°	88.8	8.6	12.2	15.7	14.7
87.5°	11.2	5.1	10.1	13.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)