

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-CLI-UNV-L840-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 (P23769)
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-CLI-UNV-L840-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

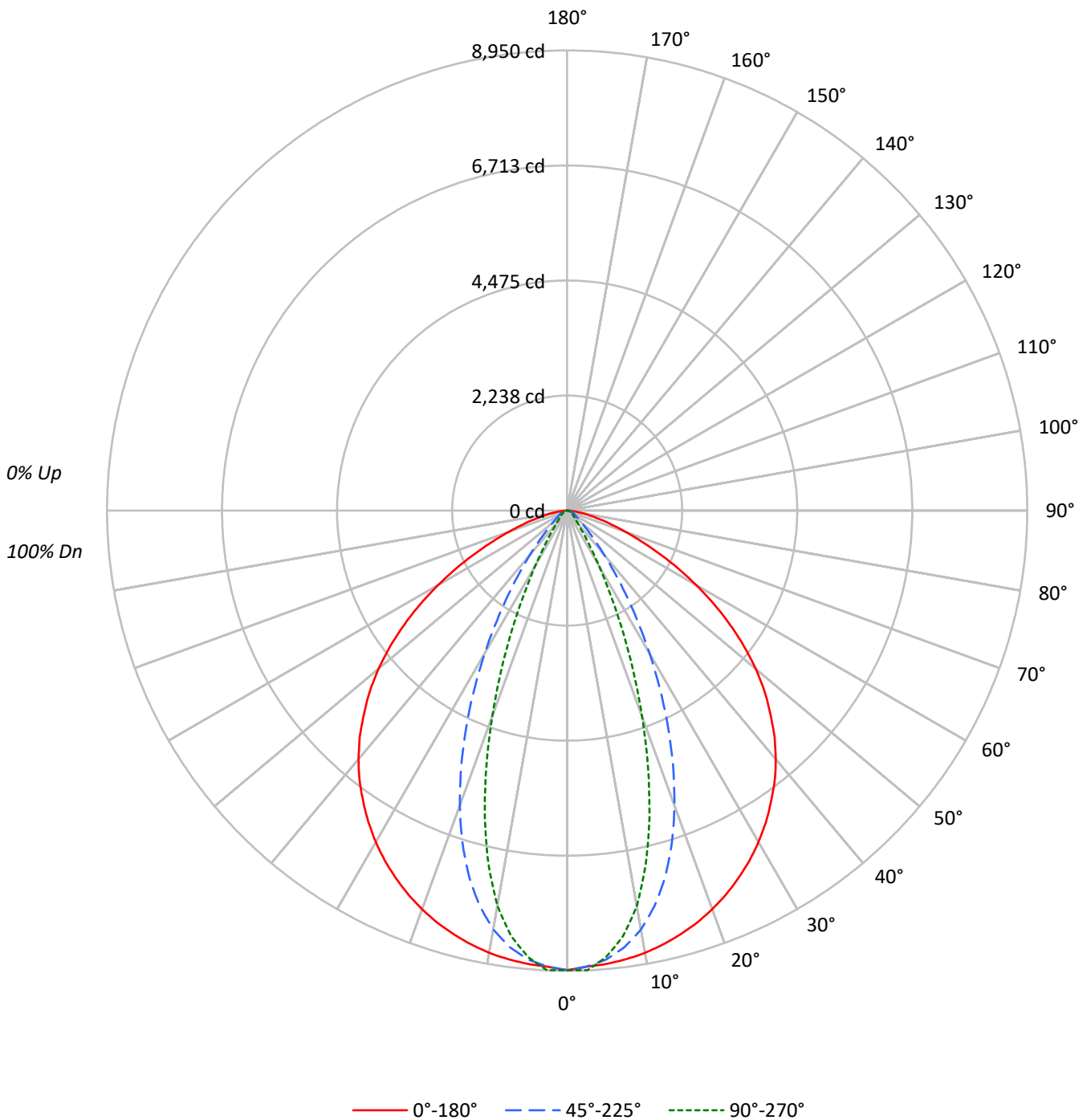
Lumens per Lamp: N/A
Luminaire Lumens: 9785.0 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12026	12026	12026
5°	11953	11835	11772
10°	11933	11299	10662
15°	11886	10270	8611
20°	11814	8739	6103
25°	11708	6891	3687
30°	11566	4974	1895
35°	11358	3252	946
40°	11088	1953	552
45°	10627	1166	413
50°	10024	763	347
55°	9072	579	303
60°	7796	493	276
65°	6271	450	261
70°	4724	482	259
75°	3475	457	267
80°	2542	456	292
85°	1903	553	378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	823.1	8.4
10°-20°	2047.8	20.9
20°-30°	2268.2	23.2
30°-40°	1817.2	18.6
40°-50°	1297.3	13.3
50°-60°	833.3	8.5
60°-70°	451.6	4.6
70°-80°	193.0	2.0
80°-90°	53.5	0.5
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°	5139.1	52.5
0°-40°	6956.4	71.1
0°-60°	9086.9	92.9
0°-90°	9785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9785.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8938	8938	8938	8938	8938	
5°	8850	8883	8762	8734	8716	841
15°	8533	8266	7373	6516	6182	2407
25°	7887	6954	4642	3024	2484	3633
35°	6915	5001	1980	798	576	4323
45°	5585	2887	613	261	217	4305
55°	3867	1291	247	152	129	3446
65°	1970	530	141	97	82	1972
75°	668	194	88	61	51	743
85°	123	51	36	30	24	151
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8937.9	8937.9	8937.9	8937.9	8937.9
2.5°	8879.0	8934.6	8874.8	8912.0	8950.1
5°	8850.3	8883.3	8762.3	8734.5	8716.2
7.5°	8800.4	8791.0	8563.6	8416.3	8345.2
10°	8734.5	8658.3	8269.9	7946.0	7803.8
12.5°	8640.4	8483.1	7872.1	7303.4	7062.4
15°	8532.6	8265.6	7373.1	6515.8	6181.6
17.5°	8403.6	8011.4	6776.6	5671.3	5230.2
20°	8251.0	7704.5	6103.4	4774.0	4262.3
22.5°	8080.6	7350.5	5382.7	3879.6	3330.6
25°	7886.7	6954.1	4641.7	3024.2	2483.7
27.5°	7677.2	6513.9	3905.0	2259.7	1766.8
30°	7444.6	6037.5	3201.2	1629.3	1219.7
32.5°	7190.9	5531.0	2547.3	1145.8	834.2
35°	6914.6	5001.4	1979.6	798.4	576.2
37.5°	6631.6	4460.9	1495.1	564.4	413.3
40°	6312.9	3922.4	1111.9	413.3	314.5
42.5°	5970.7	3394.2	822.9	318.2	254.7
45°	5585.1	2887.2	612.9	260.8	217.0
47.5°	5211.3	2414.5	465.6	222.2	188.8
50°	4788.6	1988.0	364.4	194.0	165.7
52.5°	4340.0	1612.8	295.6	170.9	145.9
55°	3867.3	1290.8	246.7	151.6	129.0
57.5°	3388.5	1022.5	210.9	135.1	114.9
60°	2897.1	817.7	183.1	121.0	102.6
62.5°	2417.4	653.9	160.1	108.7	91.8
65°	1969.7	530.1	141.2	97.4	81.9
67.5°	1555.9	419.0	131.8	87.6	73.9
70°	1200.9	326.2	122.4	78.1	65.9
72.5°	910.0	250.4	108.3	69.7	58.4
75°	668.5	194.0	88.0	61.2	51.3
77.5°	478.3	149.2	71.6	53.2	44.3
80°	328.1	111.1	58.8	45.7	37.7
82.5°	213.3	78.6	47.5	37.7	31.1
85°	123.3	51.3	35.8	29.7	24.5
87.5°	53.2	28.2	24.5	22.1	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)