

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-LD5-15HE-W-AI-UNV-L740-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 (P23765)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15HE-W-AI-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

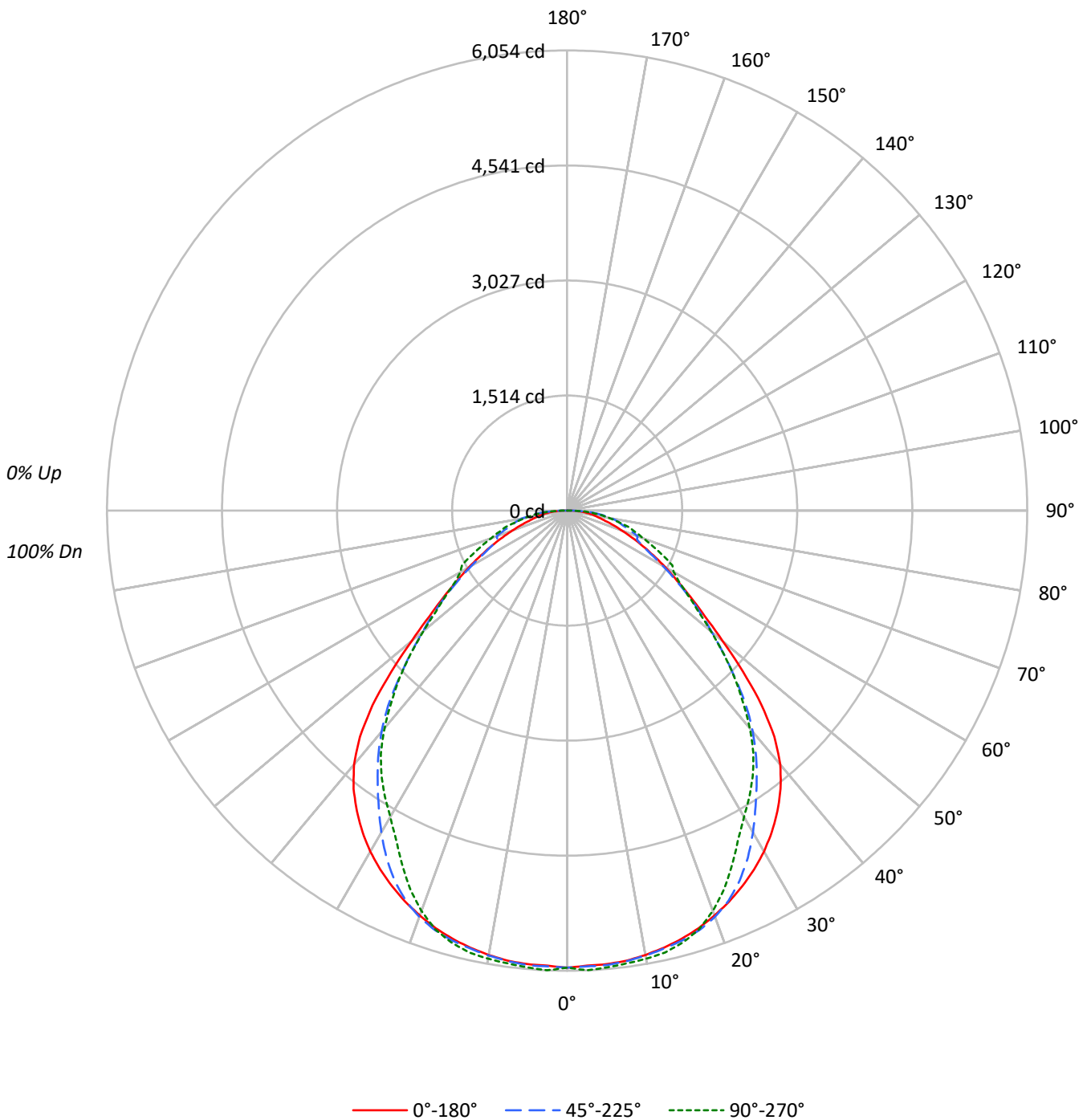
Lumens per Lamp: N/A
Luminaire Lumens: 13919.0 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 91.8
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°	8091	8091	8091
5°	8091	8108	8148
10°	8111	8121	8181
15°	8123	8154	8193
20°	8115	8145	8024
25°	8094	7973	7626
30°	8047	7597	7227
35°	7926	7140	6992
40°	7661	6676	6566
45°	6885	5962	5940
50°	5584	5193	5157
55°	4637	4551	4549
60°	4015	3898	4358
65°	3479	3458	4392
70°	3000	3879	4187
75°	2690	3975	4365
80°	2796	4680	4379
85°	3174	5392	5003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.6	4.1
10°-20°	1653.6	11.9
20°-30°	2455.9	17.6
30°-40°	2788.2	20.0
40°-50°	2492.5	17.9
50°-60°	1723.3	12.4
60°-70°	1137.1	8.2
70°-80°	767.2	5.5
80°-90°	328.6	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°	4682.1	33.6
0°-40°	7470.3	53.7
0°-60°	11686.1	84.0
0°-90°	13919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6013	6013	6013	6013	6013	
5°	5990	6027	6003	6028	6032	570
15°	5832	5860	5853	5886	5882	1646
25°	5452	5504	5371	5211	5137	2512
35°	4825	4724	4347	4284	4257	3009
45°	3618	3312	3133	3157	3122	2752
55°	1977	1804	1940	1913	1939	1796
65°	1093	970	1086	1270	1380	1091
75°	518	651	765	817	840	565
85°	206	286	349	351	324	214
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6013.4	6013.4	6013.4	6013.4	6013.4
2.5°	5993.0	6030.5	6002.5	6028.4	6053.6
5°	5990.3	6027.1	6003.2	6027.7	6032.5
7.5°	5973.3	6007.3	5979.4	6003.2	6008.7
10°	5936.5	5976.7	5944.0	5980.8	5987.6
12.5°	5888.8	5929.7	5901.1	5951.5	5954.2
15°	5831.6	5859.5	5853.4	5886.1	5882.0
17.5°	5759.4	5791.4	5786.7	5794.9	5775.8
20°	5667.5	5703.6	5688.6	5651.2	5604.2
22.5°	5568.8	5612.4	5553.1	5458.5	5392.4
25°	5452.3	5504.1	5370.6	5210.6	5137.1
27.5°	5323.6	5369.9	5148.0	4951.8	4875.6
30°	5179.3	5199.0	4889.9	4703.3	4651.5
32.5°	5012.4	4983.8	4614.1	4490.8	4460.9
35°	4825.2	4723.7	4347.2	4283.8	4256.6
37.5°	4614.1	4428.2	4083.6	4054.4	4025.8
40°	4361.5	4087.0	3801.0	3782.0	3738.4
42.5°	4035.3	3715.9	3487.1	3464.7	3425.8
45°	3618.5	3312.1	3133.0	3156.9	3121.5
47.5°	3139.2	2907.0	2793.2	2858.6	2793.2
50°	2667.9	2512.0	2480.7	2539.9	2463.7
52.5°	2281.9	2141.6	2206.3	2216.5	2170.9
55°	1976.8	1804.5	1940.0	1912.8	1939.3
57.5°	1711.2	1518.5	1685.3	1654.0	1745.3
60°	1492.0	1275.4	1448.4	1441.6	1619.3
62.5°	1276.8	1103.8	1242.7	1342.8	1561.4
65°	1092.9	970.3	1086.1	1270.0	1379.6
67.5°	916.6	870.2	993.5	1095.6	1215.5
70°	762.7	786.5	986.0	966.9	1064.3
72.5°	633.3	714.3	870.2	873.7	942.4
75°	517.5	651.0	764.7	817.1	839.6
77.5°	430.4	590.4	690.5	708.9	687.1
80°	360.9	520.2	604.0	595.8	565.2
82.5°	291.4	394.3	476.0	483.5	447.4
85°	205.6	286.0	349.3	351.4	324.1
87.5°	110.3	176.4	211.8	217.9	201.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)