

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-LD5-18HE-W-UNV-L740-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 (P23760)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

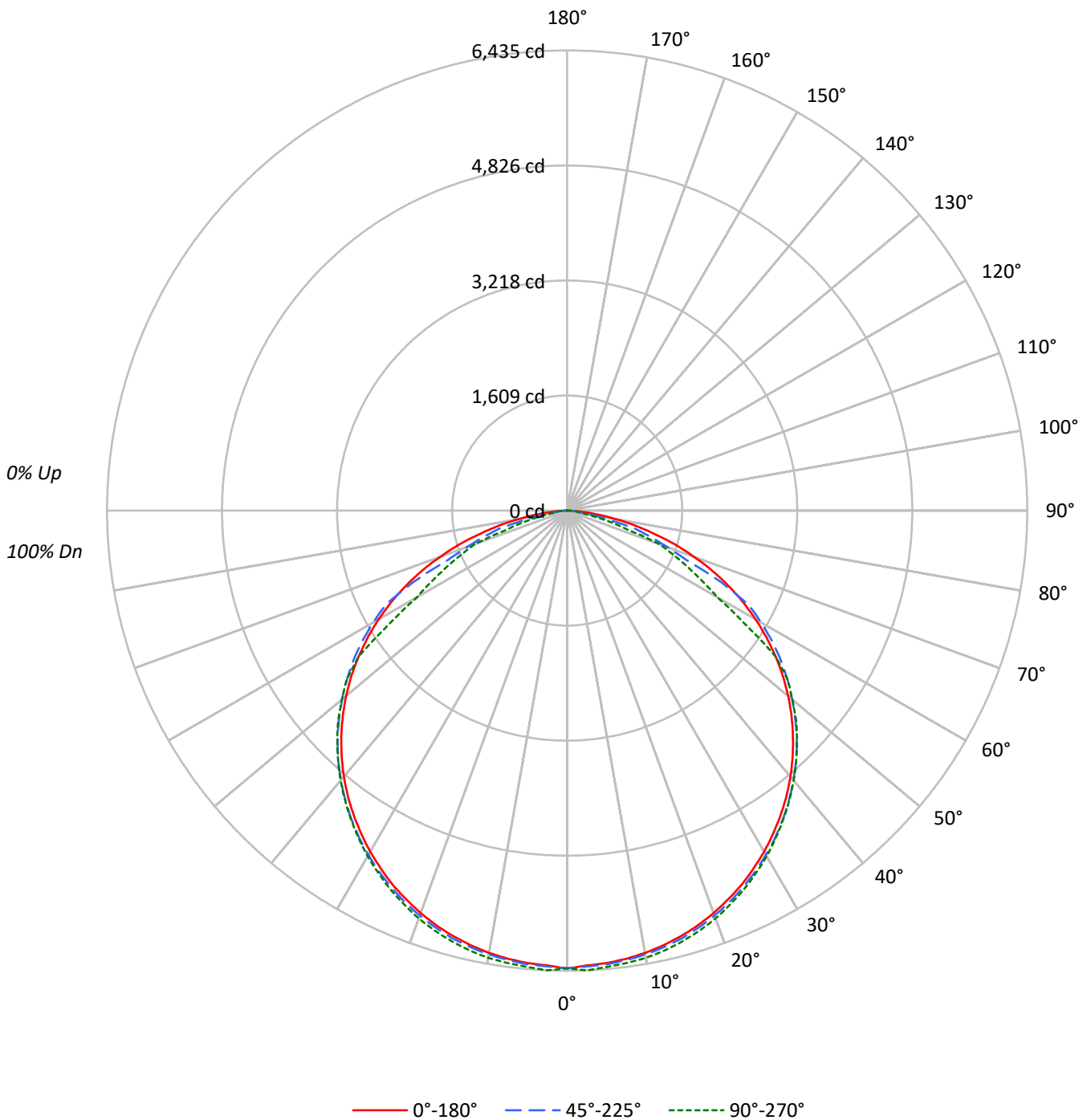
Lumens per Lamp: N/A
Luminaire Lumens: 18479.0 lumens
Efficiency: N/A
Efficacy: 165.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 111.9
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	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8612	8612	8612
5°	8577	8601	8649
10°	8582	8612	8677
15°	8579	8625	8685
20°	8575	8630	8690
25°	8572	8633	8681
30°	8557	8640	8673
35°	8546	8645	8656
40°	8531	8644	8658
45°	8499	8640	8650
50°	8448	8604	8602
55°	8349	8558	8346
60°	8194	8432	6530
65°	7921	7589	5883
70°	7421	5839	5422
75°	6570	5090	3379
80°	5411	2997	1510
85°	3566	1836	1979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.4	3.3
10°-20°	1752.5	9.5
20°-30°	2686.7	14.5
30°-40°	3295.0	17.8
40°-50°	3498.7	18.9
50°-60°	3195.7	17.3
60°-70°	2225.5	12.0
70°-80°	1038.0	5.6
80°-90°	179.5	1.0
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°	5046.6	27.3
0°-40°	8341.6	45.1
0°-60°	15036.0	81.4
0°-90°	18479.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18479.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6401	6401	6401	6401	6401	
5°	6350	6395	6368	6399	6404	604
15°	6159	6202	6192	6230	6235	1739
25°	5774	5825	5815	5858	5848	2661
35°	5203	5263	5263	5298	5270	3256
45°	4466	4534	4541	4570	4546	3445
55°	3559	3631	3648	3654	3558	3179
65°	2488	2565	2384	1896	1848	2455
75°	1264	1344	979	678	650	1351
85°	231	152	119	127	128	298
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6401.0	6401.0	6401.0	6401.0	6401.0
2.5°	6367.2	6407.9	6381.0	6410.2	6434.7
5°	6350.3	6394.8	6368.0	6398.7	6404.0
7.5°	6322.7	6364.9	6340.3	6374.1	6382.5
10°	6281.2	6322.7	6303.5	6343.4	6351.1
12.5°	6225.2	6267.4	6252.8	6296.6	6302.0
15°	6159.2	6202.2	6192.2	6229.8	6235.2
17.5°	6081.7	6126.2	6114.7	6154.6	6158.5
20°	5988.9	6037.2	6027.2	6074.0	6069.4
22.5°	5884.5	5935.9	5928.2	5975.0	5961.2
25°	5774.0	5824.6	5815.4	5858.4	5847.7
27.5°	5644.3	5700.3	5691.9	5733.3	5716.4
30°	5507.7	5564.5	5561.4	5599.0	5582.1
32.5°	5360.4	5421.0	5417.9	5454.7	5428.7
35°	5203.0	5262.9	5262.9	5298.2	5269.8
37.5°	5036.5	5097.1	5097.9	5131.7	5104.8
40°	4856.9	4917.6	4921.4	4953.6	4929.1
42.5°	4668.1	4734.1	4737.2	4766.4	4743.4
45°	4466.3	4533.9	4540.8	4569.9	4546.1
47.5°	4255.3	4323.6	4329.7	4361.2	4344.3
50°	4035.8	4101.8	4110.2	4136.3	4109.5
52.5°	3804.0	3871.6	3883.1	3899.2	3886.9
55°	3559.2	3630.6	3648.3	3654.4	3557.7
57.5°	3306.0	3378.9	3395.8	3254.6	2943.8
60°	3045.1	3117.2	3133.3	2647.6	2426.5
62.5°	2773.4	2844.0	2861.7	2194.0	2123.4
65°	2487.9	2564.7	2383.6	1895.5	1847.9
67.5°	2194.8	2273.8	1802.6	1624.6	1596.2
70°	1886.3	1966.1	1484.2	1385.2	1378.3
72.5°	1590.1	1649.2	1217.9	1049.8	884.1
75°	1263.9	1343.7	979.2	678.4	650.0
77.5°	980.0	847.2	590.9	497.3	392.1
80°	698.3	566.3	386.8	206.4	194.9
82.5°	442.8	369.9	151.9	155.8	162.7
85°	231.0	151.9	118.9	127.4	128.2
87.5°	74.4	65.2	71.4	70.6	69.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)