

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-LD5-18SE-W-CL-UNV-L735-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 (P23762)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-CL-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

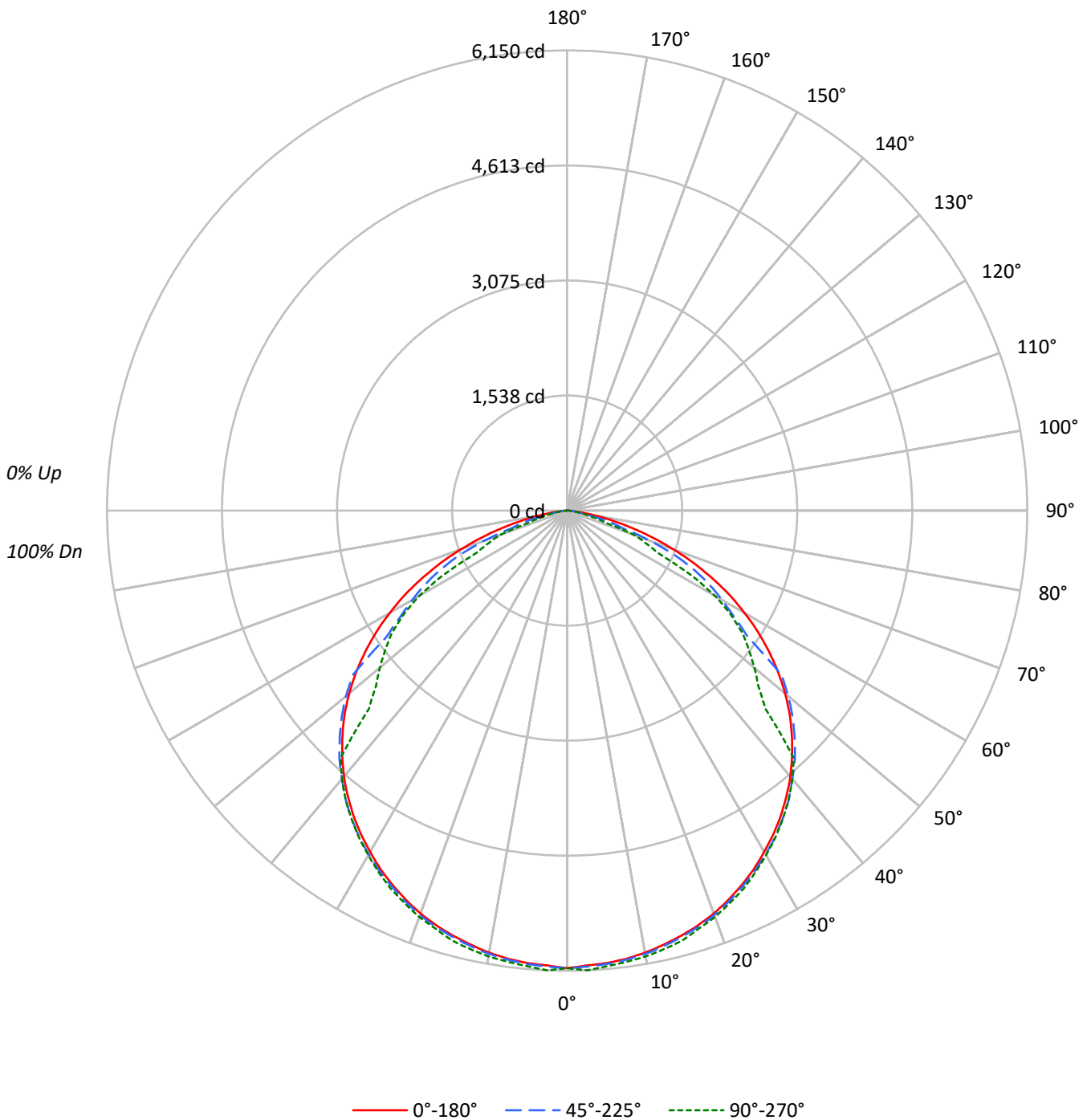
Lumens per Lamp: N/A
Luminaire Lumens: 16530.0 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 121.76
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8227	8227	8227
5°	8197	8215	8255
10°	8196	8219	8267
15°	8196	8221	8287
20°	8206	8237	8275
25°	8196	8227	8277
30°	8181	8241	8260
35°	8177	8252	8258
40°	8152	8224	8224
45°	8082	8179	7127
50°	7957	8077	6838
55°	7731	6914	6717
60°	7368	6427	6136
65°	6814	5966	4250
70°	5934	4642	3787
75°	4687	3116	2036
80°	3017	1488	1269
85°	1241	908	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.0	3.5
10°-20°	1671.8	10.1
20°-30°	2563.1	15.5
30°-40°	3141.4	19.0
40°-50°	3229.6	19.5
50°-60°	2756.4	16.7
60°-70°	1822.3	11.0
70°-80°	675.1	4.1
80°-90°	90.3	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°	4814.9	29.1
0°-40°	7956.3	48.1
0°-60°	13942.3	84.3
0°-90°	16530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16530.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6114	6114	6114	6114	6114	
5°	6069	6111	6082	6106	6112	577
15°	5884	5919	5902	5946	5949	1662
25°	5521	5550	5542	5592	5575	2546
35°	4978	5013	5024	5055	5027	3114
45°	4247	4290	4299	4292	3746	3273
55°	3296	3356	2947	2862	2863	2941
65°	2140	2158	1874	1541	1335	2111
75°	902	790	599	403	392	967
85°	80	57	59	64	65	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6114.4	6114.4	6114.4	6114.4	6114.4
2.5°	6084.6	6122.6	6100.2	6128.5	6150.1
5°	6069.0	6111.4	6082.4	6106.2	6112.2
7.5°	6042.2	6081.6	6054.8	6086.1	6081.6
10°	5999.0	6034.7	6016.1	6048.9	6051.1
12.5°	5943.9	5979.6	5962.5	6002.7	6002.0
15°	5883.6	5919.3	5901.5	5946.1	5949.1
17.5°	5812.9	5845.6	5832.2	5873.2	5856.8
20°	5731.0	5759.3	5752.6	5791.3	5779.4
22.5°	5630.5	5659.5	5652.8	5697.5	5679.6
25°	5521.0	5550.1	5541.9	5591.8	5575.4
27.5°	5402.7	5430.2	5429.5	5476.4	5451.1
30°	5265.7	5302.2	5304.4	5346.1	5316.3
32.5°	5130.2	5164.4	5174.1	5204.6	5179.3
35°	4978.3	5012.6	5023.7	5055.0	5027.4
37.5°	4814.5	4843.6	4863.7	4886.7	4865.2
40°	4641.1	4667.1	4682.0	4710.3	4682.0
42.5°	4447.5	4484.7	4505.6	4525.7	4479.5
45°	4247.2	4289.7	4298.6	4291.9	3745.5
47.5°	4035.1	4081.2	4086.4	3563.8	3463.3
50°	3801.3	3859.4	3858.6	3293.6	3266.8
52.5°	3557.9	3613.7	3611.5	3082.1	3064.3
55°	3295.8	3356.1	2947.4	2861.8	2863.3
57.5°	3028.5	3071.7	2644.4	2648.1	2599.0
60°	2738.2	2779.1	2388.3	2365.2	2280.3
62.5°	2447.1	2464.2	2140.4	2028.0	1866.4
65°	2140.4	2158.2	1873.8	1541.1	1334.8
67.5°	1825.5	1843.3	1555.2	1146.5	1130.9
70°	1508.3	1362.4	1180.0	955.2	962.6
72.5°	1195.6	1046.7	771.3	740.0	534.5
75°	901.6	789.9	599.3	402.8	391.6
77.5°	627.6	544.2	320.9	274.7	256.8
80°	389.4	273.2	192.1	170.5	163.8
82.5°	197.3	157.1	104.2	104.2	104.2
85°	80.4	57.3	58.8	64.0	64.8
87.5°	17.1	23.1	28.3	29.0	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)