

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-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 (P23760)
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-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

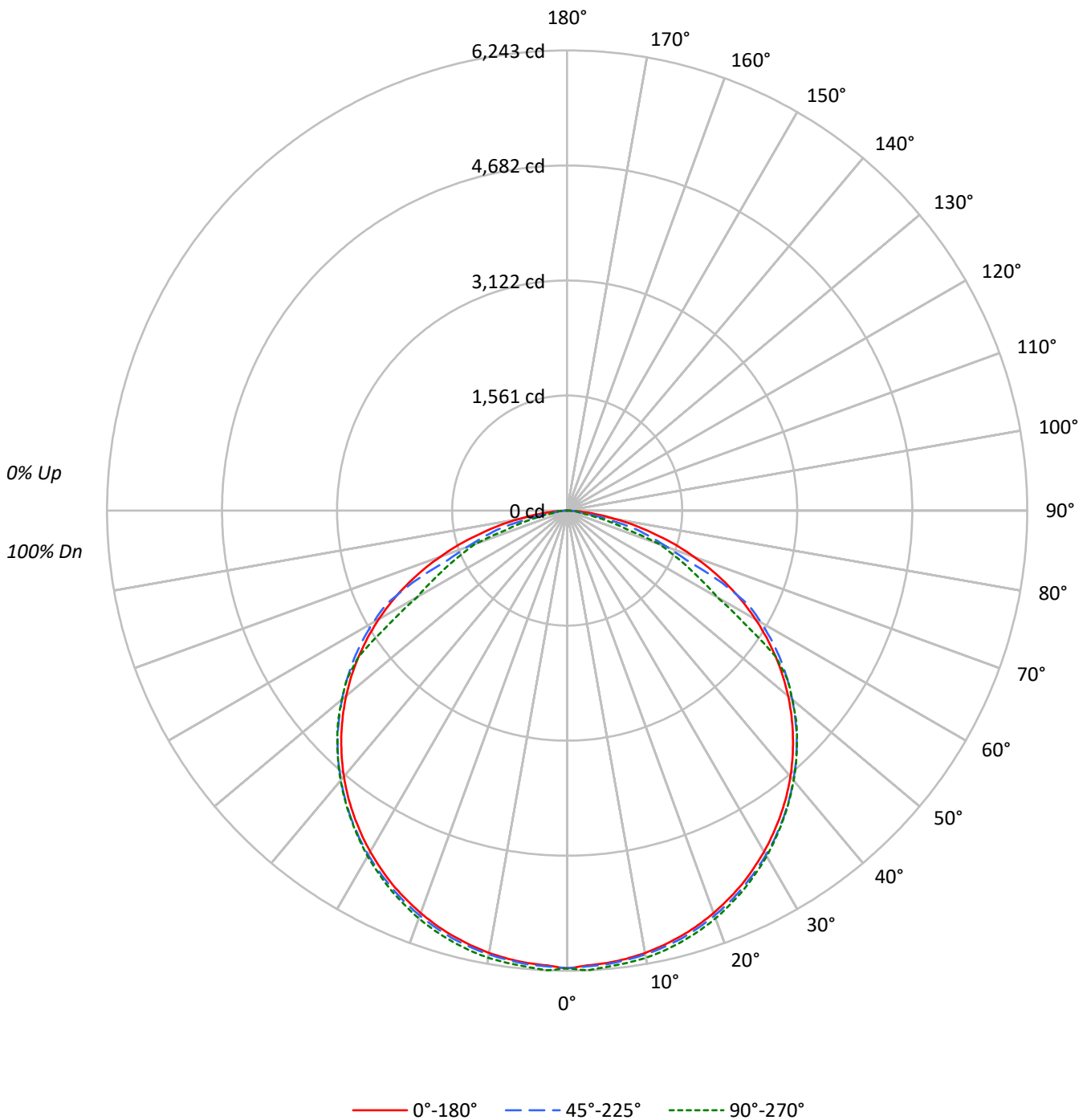
Lumens per Lamp: N/A
Luminaire Lumens: 17928.0 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	109	105	101	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47		58	52	47		56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8356	8356	8356
5°	8321	8344	8392
10°	8326	8355	8418
15°	8324	8368	8426
20°	8319	8373	8431
25°	8316	8376	8422
30°	8302	8383	8414
35°	8291	8387	8398
40°	8276	8386	8399
45°	8245	8383	8393
50°	8196	8347	8345
55°	8100	8303	8097
60°	7950	8180	6335
65°	7685	7362	5708
70°	7199	5664	5260
75°	6374	4939	3278
80°	5250	2907	1465
85°	3460	1782	1919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.3	3.3
10°-20°	1700.2	9.5
20°-30°	2606.6	14.5
30°-40°	3196.7	17.8
40°-50°	3394.4	18.9
50°-60°	3100.4	17.3
60°-70°	2159.1	12.0
70°-80°	1007.0	5.6
80°-90°	174.2	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°	4896.1	27.3
0°-40°	8092.9	45.1
0°-60°	14587.7	81.4
0°-90°	17928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6210	6210	6210	6210	6210	
5°	6161	6204	6178	6208	6213	586
15°	5976	6017	6008	6044	6049	1687
25°	5602	5651	5642	5684	5673	2582
35°	5048	5106	5106	5140	5113	3159
45°	4333	4399	4405	4434	4411	3342
55°	3453	3522	3540	3545	3452	3084
65°	2414	2488	2312	1839	1793	2382
75°	1226	1304	950	658	631	1311
85°	224	147	115	124	124	289
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6210.1	6210.1	6210.1	6210.1	6210.1
2.5°	6177.3	6216.8	6190.7	6219.0	6242.9
5°	6161.0	6204.1	6178.1	6207.9	6213.1
7.5°	6134.2	6175.1	6151.3	6184.0	6192.2
10°	6093.9	6134.2	6115.5	6154.3	6161.7
12.5°	6039.6	6080.5	6066.4	6108.8	6114.1
15°	5975.6	6017.3	6007.6	6044.1	6049.3
17.5°	5900.4	5943.6	5932.4	5971.1	5974.8
20°	5810.3	5857.2	5847.5	5892.9	5888.5
22.5°	5709.0	5758.9	5751.5	5796.9	5783.5
25°	5601.8	5651.0	5642.0	5683.7	5673.3
27.5°	5476.0	5530.3	5522.2	5562.4	5546.0
30°	5343.5	5398.6	5395.6	5432.1	5415.7
32.5°	5200.5	5259.3	5256.4	5292.1	5266.8
35°	5047.9	5106.0	5106.0	5140.2	5112.7
37.5°	4886.3	4945.1	4945.9	4978.6	4952.6
40°	4712.1	4770.9	4774.6	4805.9	4782.1
42.5°	4529.0	4593.0	4596.0	4624.3	4601.9
45°	4333.1	4398.7	4405.4	4433.7	4410.6
47.5°	4128.4	4194.7	4200.6	4231.1	4214.8
50°	3915.5	3979.5	3987.7	4013.0	3986.9
52.5°	3690.6	3756.1	3767.3	3782.9	3771.0
55°	3453.1	3522.4	3539.5	3545.4	3451.6
57.5°	3207.4	3278.2	3294.5	3157.5	2856.0
60°	2954.3	3024.3	3039.9	2568.6	2354.2
62.5°	2690.7	2759.2	2776.3	2128.6	2060.1
65°	2413.8	2488.2	2312.5	1839.0	1792.8
67.5°	2129.3	2206.0	1748.9	1576.2	1548.6
70°	1830.0	1907.5	1439.9	1343.9	1337.2
72.5°	1542.7	1600.0	1181.6	1018.5	857.7
75°	1226.2	1303.7	950.0	658.2	630.6
77.5°	950.8	822.0	573.3	482.5	380.5
80°	677.5	549.5	375.2	200.3	189.1
82.5°	429.6	358.9	147.4	151.1	157.8
85°	224.1	147.4	115.4	123.6	124.3
87.5°	72.2	63.3	69.2	68.5	67.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)