

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-L835-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-L835-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

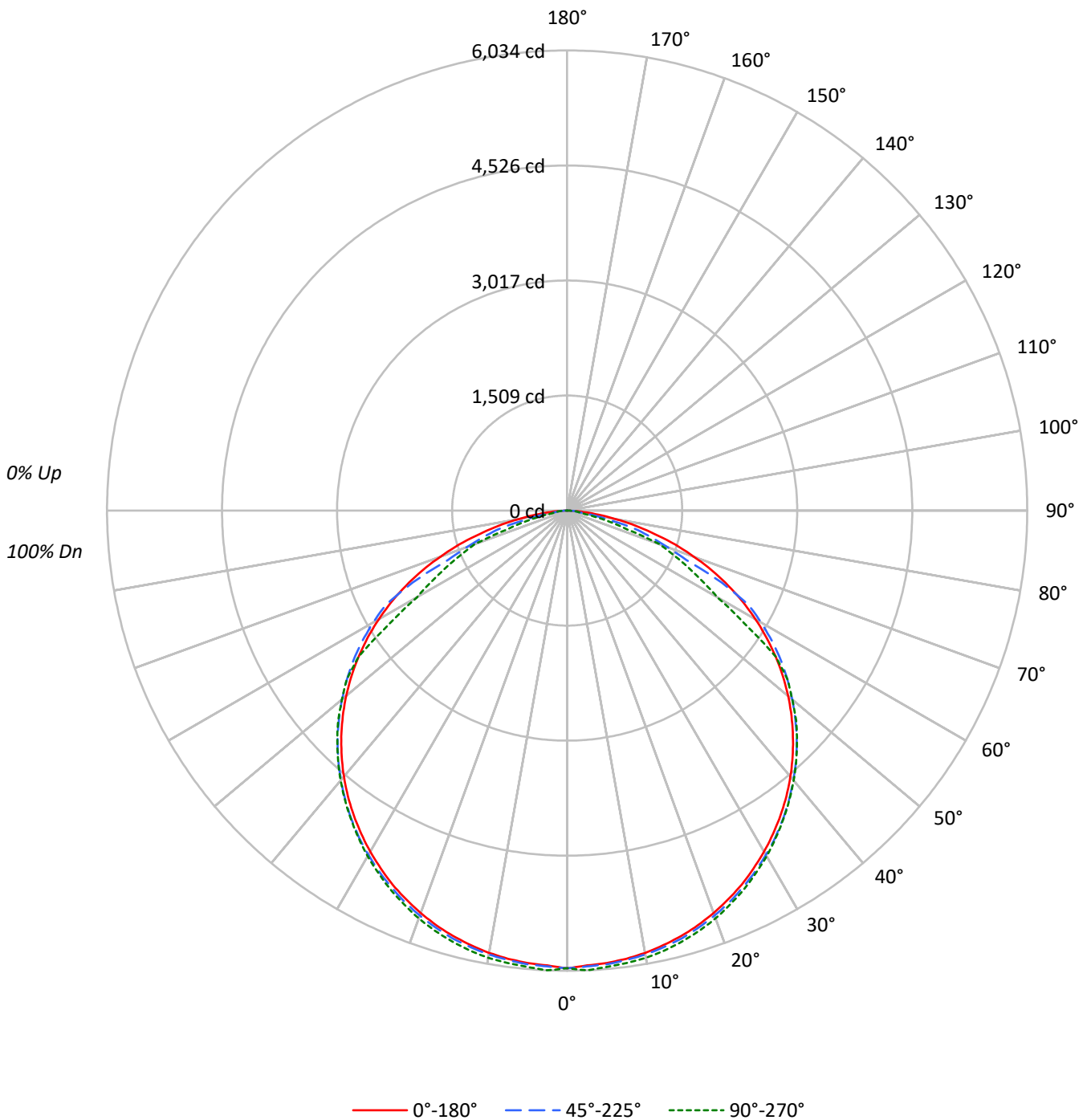
Lumens per Lamp: N/A  
Luminaire Lumens: 17327.0 lumens  
Efficiency: N/A  
Efficacy: 142.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	8075	8075	8075
5°	8042	8065	8110
10°	8047	8075	8136
15°	8045	8088	8144
20°	8040	8092	8149
25°	8038	8095	8140
30°	8023	8102	8132
35°	8013	8106	8116
40°	7999	8105	8118
45°	7969	8102	8111
50°	7921	8067	8066
55°	7829	8024	7825
60°	7683	7906	6123
65°	7427	7116	5516
70°	6958	5474	5084
75°	6161	4773	3169
80°	5074	2810	1416
85°	3344	1721	1856



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	569.5	3.3
10°-20°	1643.2	9.5
20°-30°	2519.2	14.5
30°-40°	3089.6	17.8
40°-50°	3280.6	18.9
50°-60°	2996.5	17.3
60°-70°	2086.7	12.0
70°-80°	973.3	5.6
80°-90°	168.4	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°	4732.0	27.3
0°-40°	7821.6	45.1
0°-60°	14098.7	81.4
0°-90°	17327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17327.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6002	6002	6002	6002	6002	
5°	5954	5996	5971	6000	6005	566
15°	5775	5816	5806	5842	5846	1631
25°	5414	5462	5453	5493	5483	2495
35°	4879	4935	4935	4968	4941	3053
45°	4188	4251	4258	4285	4263	3230
55°	3337	3404	3421	3427	3336	2980
65°	2333	2405	2235	1777	1733	2302
75°	1185	1260	918	636	610	1267
85°	217	142	112	119	120	280
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6001.9	6001.9	6001.9	6001.9	6001.9
2.5°	5970.3	6008.4	5983.2	6010.5	6033.6
5°	5954.4	5996.2	5971.0	5999.8	6004.8
7.5°	5928.5	5968.1	5945.1	5976.7	5984.6
10°	5889.7	5928.5	5910.5	5947.9	5955.1
12.5°	5837.1	5876.7	5863.0	5904.1	5909.1
15°	5775.3	5815.5	5806.2	5841.5	5846.5
17.5°	5702.6	5744.3	5733.5	5770.9	5774.5
20°	5615.5	5660.8	5651.5	5695.4	5691.1
22.5°	5517.6	5565.9	5558.7	5602.6	5589.6
25°	5414.0	5461.5	5452.9	5493.2	5483.1
27.5°	5292.4	5344.9	5337.0	5375.9	5360.1
30°	5164.3	5217.6	5214.7	5250.0	5234.1
32.5°	5026.2	5083.0	5080.1	5114.7	5090.2
35°	4878.7	4934.8	4934.8	4967.9	4941.3
37.5°	4722.5	4779.4	4780.1	4811.7	4786.6
40°	4554.1	4611.0	4614.6	4644.8	4621.8
42.5°	4377.1	4439.0	4441.9	4469.2	4447.6
45°	4187.9	4251.2	4257.7	4285.0	4262.7
47.5°	3990.0	4054.0	4059.8	4089.3	4073.5
50°	3784.2	3846.1	3854.0	3878.5	3853.3
52.5°	3566.9	3630.2	3641.0	3656.1	3644.6
55°	3337.4	3404.3	3420.8	3426.6	3335.9
57.5°	3099.9	3168.3	3184.1	3051.7	2760.3
60°	2855.2	2922.9	2938.0	2482.5	2275.3
62.5°	2600.5	2666.7	2683.3	2057.2	1991.0
65°	2332.8	2404.8	2235.0	1777.3	1732.7
67.5°	2058.0	2132.1	1690.3	1523.3	1496.7
70°	1768.7	1843.5	1391.6	1298.8	1292.3
72.5°	1490.9	1546.4	1142.0	984.4	828.9
75°	1185.1	1260.0	918.2	636.1	609.5
77.5°	918.9	794.4	554.1	466.3	367.7
80°	654.8	531.0	362.7	193.6	182.8
82.5°	415.2	346.8	142.5	146.1	152.5
85°	216.6	142.5	111.5	119.4	120.2
87.5°	69.8	61.2	66.9	66.2	65.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)