

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-CLI-UNV-L750-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 (P23766)
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-CLI-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

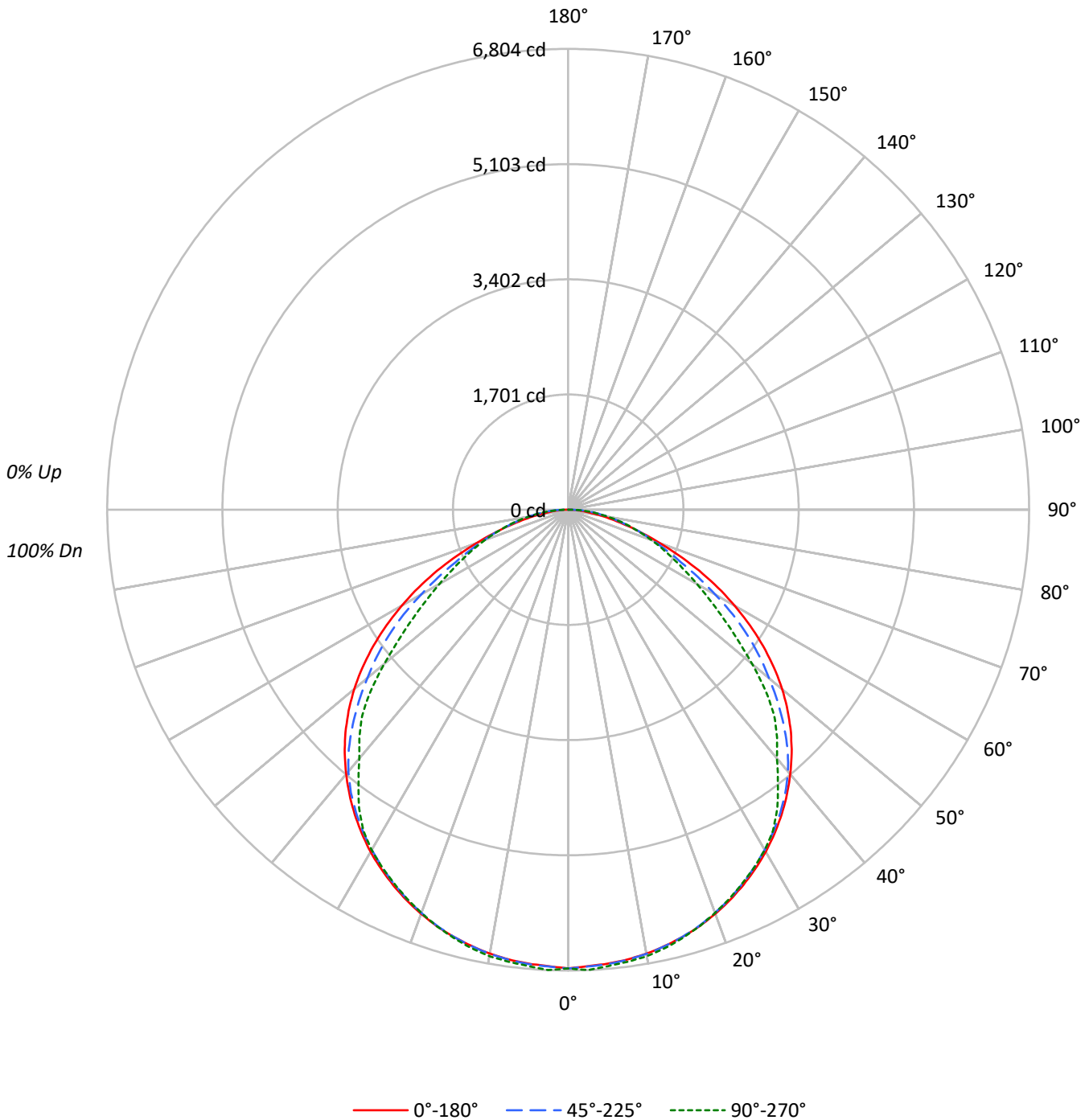
Lumens per Lamp: N/A
Luminaire Lumens: 18196.0 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9113	9113	9113
5°	9088	9095	9135
10°	9093	9098	9145
15°	9094	9093	9115
20°	9092	9071	9073
25°	9078	9044	9033
30°	9063	9009	9014
35°	9021	8965	8838
40°	8957	8865	8418
45°	8843	8560	8186
50°	8630	8104	7413
55°	8237	7579	6555
60°	7645	6763	5912
65°	6795	5855	5436
70°	5639	5233	5124
75°	4561	4789	4848
80°	3622	4580	4561
85°	2836	4920	4695



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.3	3.5
10°-20°	1847.5	10.2
20°-30°	2817.1	15.5
30°-40°	3408.2	18.7
40°-50°	3452.2	19.0
50°-60°	2853.3	15.7
60°-70°	1884.6	10.4
70°-80°	982.7	5.4
80°-90°	308.1	1.7
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°	5306.8	29.2
0°-40°	8715.0	47.9
0°-60°	15020.6	82.5
0°-90°	18196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18196.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6773	6773	6773	6773	6773	
5°	6729	6769	6734	6763	6764	640
15°	6529	6562	6528	6548	6543	1844
25°	6115	6139	6092	6108	6085	2820
35°	5492	5499	5458	5451	5381	3435
45°	4647	4635	4499	4359	4302	3579
55°	3512	3460	3231	2917	2794	3130
65°	2134	2072	1839	1720	1707	2108
75°	877	893	921	933	933	956
85°	184	237	319	316	304	223
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6772.7	6772.7	6772.7	6772.7	6772.7
2.5°	6744.2	6784.0	6750.7	6780.0	6803.5
5°	6728.7	6769.4	6733.6	6762.9	6763.7
7.5°	6698.7	6739.3	6702.7	6732.0	6731.2
10°	6655.6	6693.8	6658.8	6693.8	6693.8
12.5°	6597.0	6634.4	6600.3	6632.8	6627.9
15°	6528.7	6562.1	6527.9	6548.3	6543.4
17.5°	6448.2	6478.3	6440.1	6457.2	6447.4
20°	6349.9	6377.5	6335.2	6357.2	6336.9
22.5°	6239.3	6265.3	6222.2	6238.5	6215.7
25°	6114.9	6139.3	6092.1	6107.6	6084.8
27.5°	5980.7	6002.7	5949.9	5968.6	5950.7
30°	5833.6	5844.2	5798.6	5823.0	5801.9
32.5°	5669.4	5675.9	5636.0	5658.0	5622.2
35°	5492.1	5499.4	5458.0	5450.6	5380.7
37.5°	5302.7	5305.9	5266.9	5201.0	5085.6
40°	5099.4	5097.8	5047.4	4895.3	4792.9
42.5°	4882.3	4881.5	4792.9	4619.7	4561.2
45°	4647.4	4635.2	4498.6	4358.7	4301.8
47.5°	4395.3	4382.3	4191.2	4079.9	3950.6
50°	4122.9	4100.2	3871.7	3719.7	3541.6
52.5°	3829.4	3794.5	3561.9	3316.4	3148.1
55°	3511.5	3459.5	3231.0	2917.2	2794.4
57.5°	3180.6	3103.4	2881.4	2575.7	2475.7
60°	2840.8	2754.6	2513.1	2261.9	2196.8
62.5°	2491.2	2405.8	2159.4	1970.0	1934.2
65°	2134.2	2072.4	1839.1	1719.6	1707.4
67.5°	1768.4	1746.4	1568.4	1507.4	1502.5
70°	1433.4	1429.3	1330.1	1299.2	1302.5
72.5°	1145.6	1140.7	1126.1	1110.6	1111.4
75°	877.3	892.7	921.2	933.4	932.6
77.5°	654.5	686.2	746.4	770.8	766.7
80°	467.5	514.7	591.1	613.8	588.6
82.5°	311.4	361.0	451.2	454.5	434.2
85°	183.7	236.6	318.7	316.3	304.1
87.5°	91.1	142.3	191.1	182.9	174.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)