

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-N-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 (P23769)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-N-CLI-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

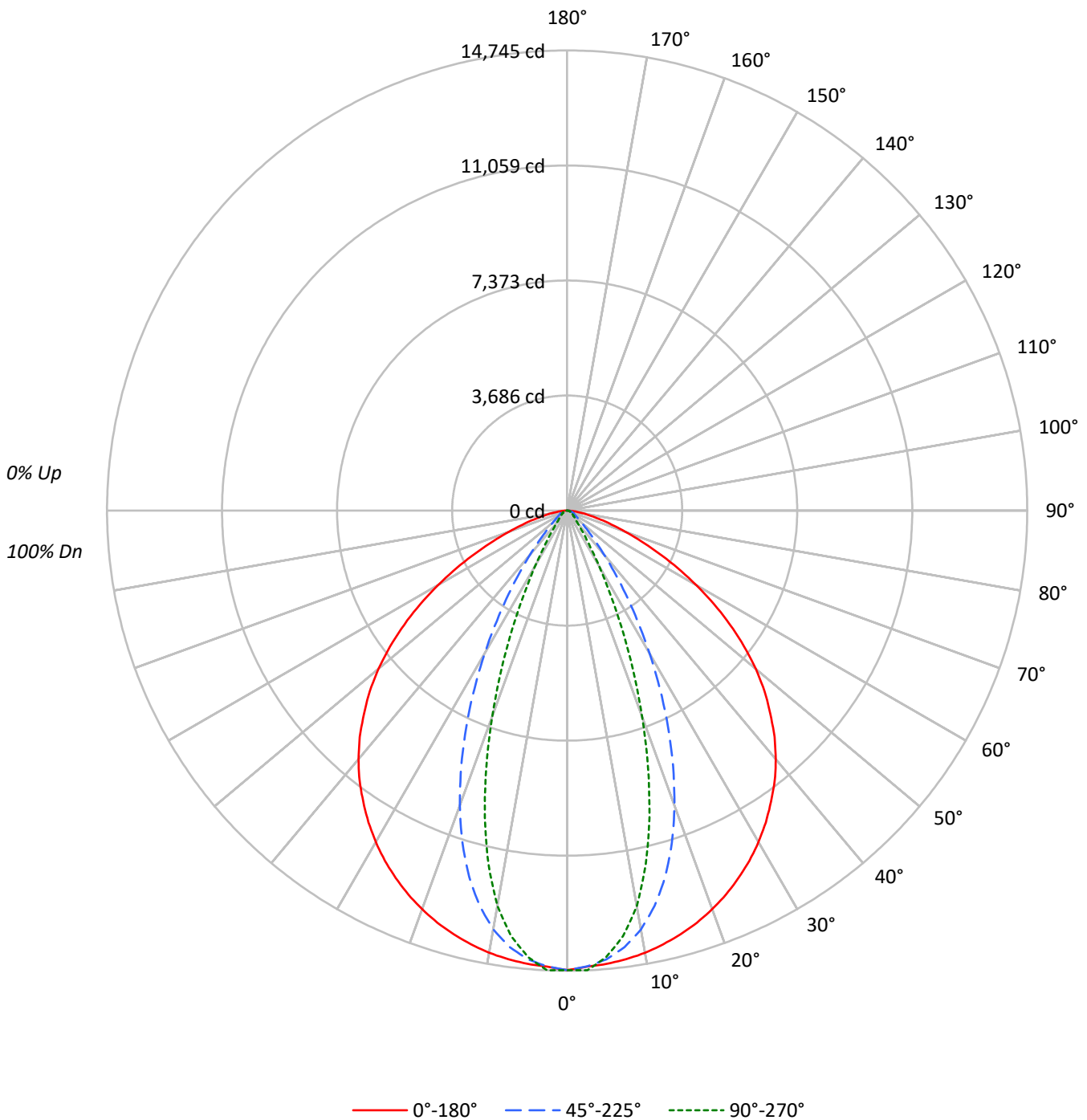
Lumens per Lamp: N/A
Luminaire Lumens: 16120.0 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19812	19812	19812
5°	19692	19497	19394
10°	19659	18614	17565
15°	19580	16920	14185
20°	19463	14397	10054
25°	19289	11352	6075
30°	19054	8193	3122
35°	18710	5357	1559
40°	18267	3217	910
45°	17508	1921	680
50°	16513	1257	571
55°	14945	953	498
60°	12843	812	455
65°	10331	741	429
70°	7783	793	427
75°	5725	754	439
80°	4189	751	480
85°	3137	909	622



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1356.0	8.4
10°-20°	3373.5	20.9
20°-30°	3736.7	23.2
30°-40°	2993.8	18.6
40°-50°	2137.2	13.3
50°-60°	1372.7	8.5
60°-70°	743.9	4.6
70°-80°	318.0	2.0
80°-90°	88.2	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°	8466.3	52.5
0°-40°	11460.1	71.1
0°-60°	14969.9	92.9
0°-90°	16120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14724	14724	14724	14724	14724	
5°	14580	14634	14435	14389	14359	###
15°	14057	13617	12147	10734	10184	3966
25°	12993	11456	7647	4982	4092	5986
35°	11391	8239	3261	1315	949	7122
45°	9201	4756	1010	430	358	7092
55°	6371	2126	406	250	212	5678
65°	3245	873	233	160	135	3249
75°	1101	320	145	101	84	1224
85°	203	84	59	49	40	248
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14724.5	14724.5	14724.5	14724.5	14724.5
2.5°	14627.5	14719.0	14620.5	14681.8	14744.6
5°	14580.2	14634.5	14435.2	14389.4	14359.2
7.5°	14498.0	14482.5	14107.9	13865.2	13748.0
10°	14389.4	14263.8	13624.0	13090.4	12856.2
12.5°	14234.3	13975.3	12968.6	12031.8	11634.7
15°	14056.7	13617.0	12146.6	10734.3	10183.7
17.5°	13844.2	13198.2	11163.9	9343.0	8616.3
20°	13592.9	12692.5	10054.9	7864.8	7021.8
22.5°	13312.2	12109.3	8867.6	6391.2	5487.0
25°	12992.7	11456.3	7646.9	4982.1	4091.8
27.5°	12647.6	10731.2	6433.1	3722.6	2910.6
30°	12264.4	9946.3	5273.7	2684.2	2009.4
32.5°	11846.4	9111.9	4196.5	1887.7	1374.3
35°	11391.2	8239.4	3261.2	1315.3	949.3
37.5°	10925.1	7349.0	2463.1	929.9	680.9
40°	10400.0	6461.8	1831.8	680.9	518.1
42.5°	9836.2	5591.7	1355.6	524.3	419.6
45°	9201.0	4756.4	1009.8	429.7	357.5
47.5°	8585.3	3977.8	767.0	366.1	311.0
50°	7888.8	3275.1	600.3	319.5	273.0
52.5°	7149.7	2657.0	487.0	281.5	240.4
55°	6371.1	2126.5	406.4	249.7	212.5
57.5°	5582.4	1684.5	347.4	222.6	189.2
60°	4772.7	1347.1	301.7	199.3	169.1
62.5°	3982.4	1077.2	263.7	179.2	151.2
65°	3244.9	873.3	232.7	160.5	134.9
67.5°	2563.2	690.2	217.2	144.3	121.8
70°	1978.4	537.5	201.6	128.7	108.6
72.5°	1499.1	412.6	178.4	114.8	96.2
75°	1101.3	319.5	145.0	100.8	84.5
77.5°	788.0	245.8	117.9	87.6	72.9
80°	540.6	183.0	96.9	75.2	62.0
82.5°	351.3	129.5	78.3	62.0	51.2
85°	203.2	84.5	58.9	48.9	40.3
87.5°	87.6	46.5	40.3	36.5	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)