

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: P730648

Luminaire Tested: **HBLED-LD5-18SE-W-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-UNV-L750
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20097.0 lumens
Efficiency: N/A
Efficacy: 175.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

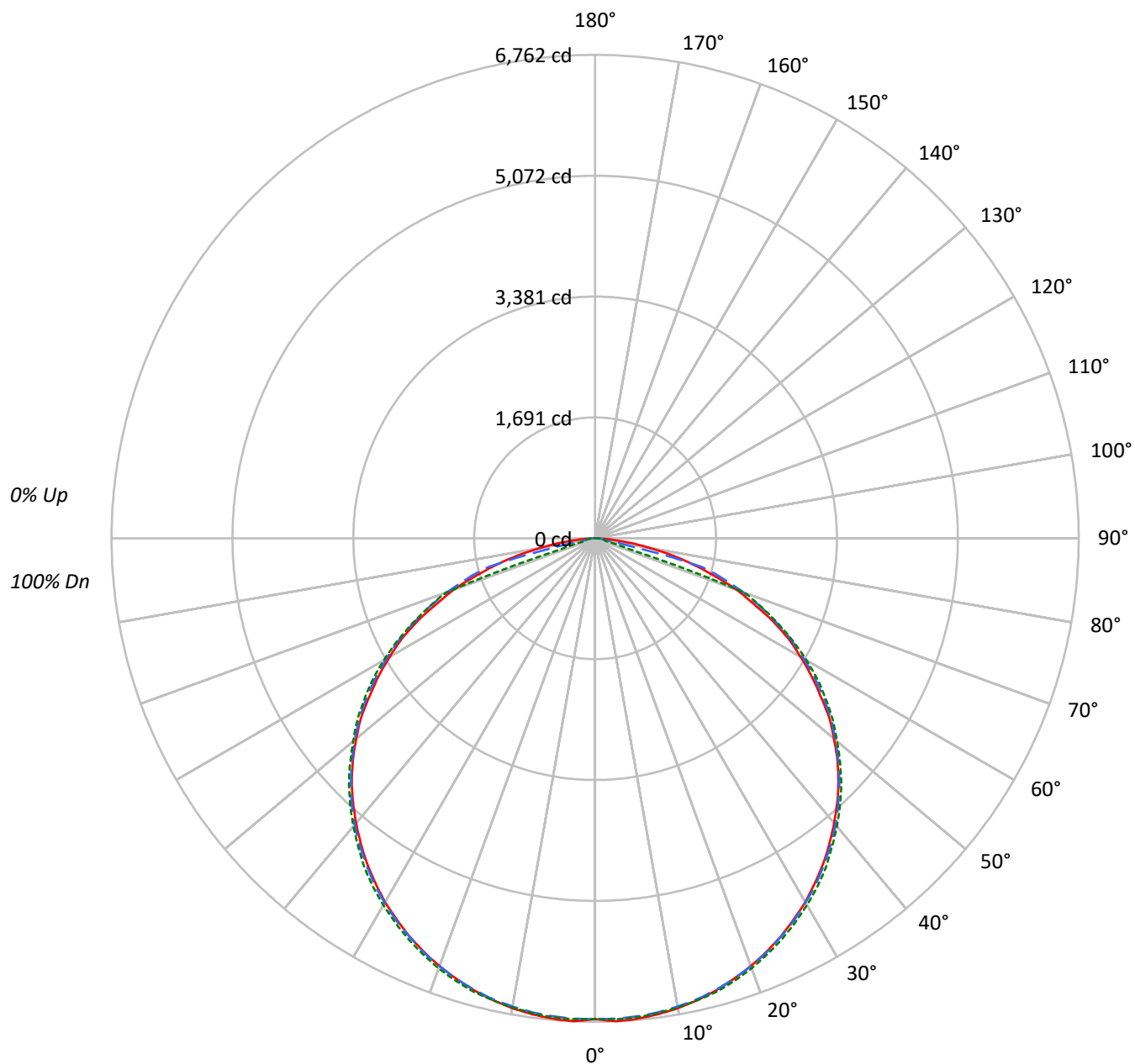
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10858	10858	10858
5°	10936	10880	10900
10°	10942	10903	10925
15°	10941	10926	10976
20°	10940	10942	10999
25°	10945	10951	11017
30°	10957	10971	11044
35°	10955	10991	11082
40°	10957	11026	11086
45°	10987	11028	11118
50°	10954	11018	11090
55°	10834	10986	11104
60°	10711	10885	11020
65°	10474	10691	10771
70°	9943	10368	10495
75°	8869	9617	1159
80°	7132	1198	1267
85°	4746	1554	1582



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.7	3.2
10°-20°	1845.6	9.2
20°-30°	2835.7	14.1
30°-40°	3490.8	17.4
40°-50°	3721.6	18.5
50°-60°	3478.9	17.3
60°-70°	2754.0	13.7
70°-80°	1171.7	5.8
80°-90°	160.0	0.8
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°	5320.0	26.5
0°-40°	8810.8	43.8
0°-60°	16011.3	79.7
0°-90°	20097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20097.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6725	6725	6725	6725	6725	
5°	6748	6718	6713	6686	6725	642
15°	6545	6533	6536	6518	6566	1848
25°	6144	6136	6147	6144	6184	2833
35°	5558	5549	5576	5596	5622	3478
45°	4812	4785	4830	4849	4869	3708
55°	3849	3861	3903	3916	3944	3446
65°	2742	2766	2798	2819	2819	2697
75°	1422	1483	1542	252	186	1504
85°	256	76	84	87	85	334
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6725.0	6725.0	6725.0	6725.0	6725.0
2.5°	6762.5	6731.0	6725.0	6698.1	6734.0
5°	6747.5	6717.5	6713.0	6686.1	6725.0
7.5°	6716.0	6692.1	6689.1	6660.6	6699.6
10°	6674.1	6651.6	6650.1	6624.7	6663.6
12.5°	6617.2	6597.7	6603.7	6578.2	6617.2
15°	6545.3	6533.3	6536.3	6518.3	6566.2
17.5°	6458.4	6452.4	6458.4	6444.9	6488.3
20°	6367.0	6359.5	6368.5	6361.0	6401.4
22.5°	6260.6	6251.6	6269.6	6259.1	6296.6
25°	6143.8	6136.3	6146.8	6143.8	6184.2
27.5°	6010.4	6002.9	6025.4	6026.9	6058.4
30°	5877.1	5866.6	5884.6	5892.1	5923.5
32.5°	5718.3	5715.3	5742.3	5748.3	5781.2
35°	5558.0	5549.0	5576.0	5595.5	5622.4
37.5°	5382.7	5381.2	5409.7	5426.2	5439.6
40°	5198.5	5191.0	5231.4	5247.9	5259.9
42.5°	5011.2	4994.7	5033.7	5054.6	5068.1
45°	4811.9	4785.0	4829.9	4849.4	4868.9
47.5°	4593.2	4569.2	4612.7	4633.7	4647.1
50°	4361.0	4338.5	4386.5	4404.5	4414.9
52.5°	4127.3	4104.8	4155.8	4170.7	4196.2
55°	3848.7	3860.6	3902.6	3916.1	3944.5
57.5°	3591.0	3601.5	3641.9	3658.4	3691.4
60°	3316.8	3333.3	3370.8	3387.2	3412.7
62.5°	3051.7	3053.2	3098.1	3105.6	3125.1
65°	2741.5	2765.5	2798.5	2819.4	2819.4
67.5°	2395.5	2453.9	2510.8	2506.3	2518.3
70°	2106.3	2128.8	2196.2	2206.7	2223.2
72.5°	1743.8	1802.2	1877.1	1402.2	476.4
75°	1421.7	1483.1	1541.6	251.7	185.8
77.5°	1104.1	1152.0	512.4	143.8	140.8
80°	767.0	843.4	128.8	131.8	136.3
82.5°	504.9	412.0	106.4	116.9	118.4
85°	256.2	76.4	83.9	86.9	85.4
87.5°	83.9	46.4	47.9	49.4	50.9
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)