

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: P730626

Luminaire Tested: **HBLED-LD5-18SE-W-CL-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23762)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-CL-UNV-L840
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
& DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16897.0 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

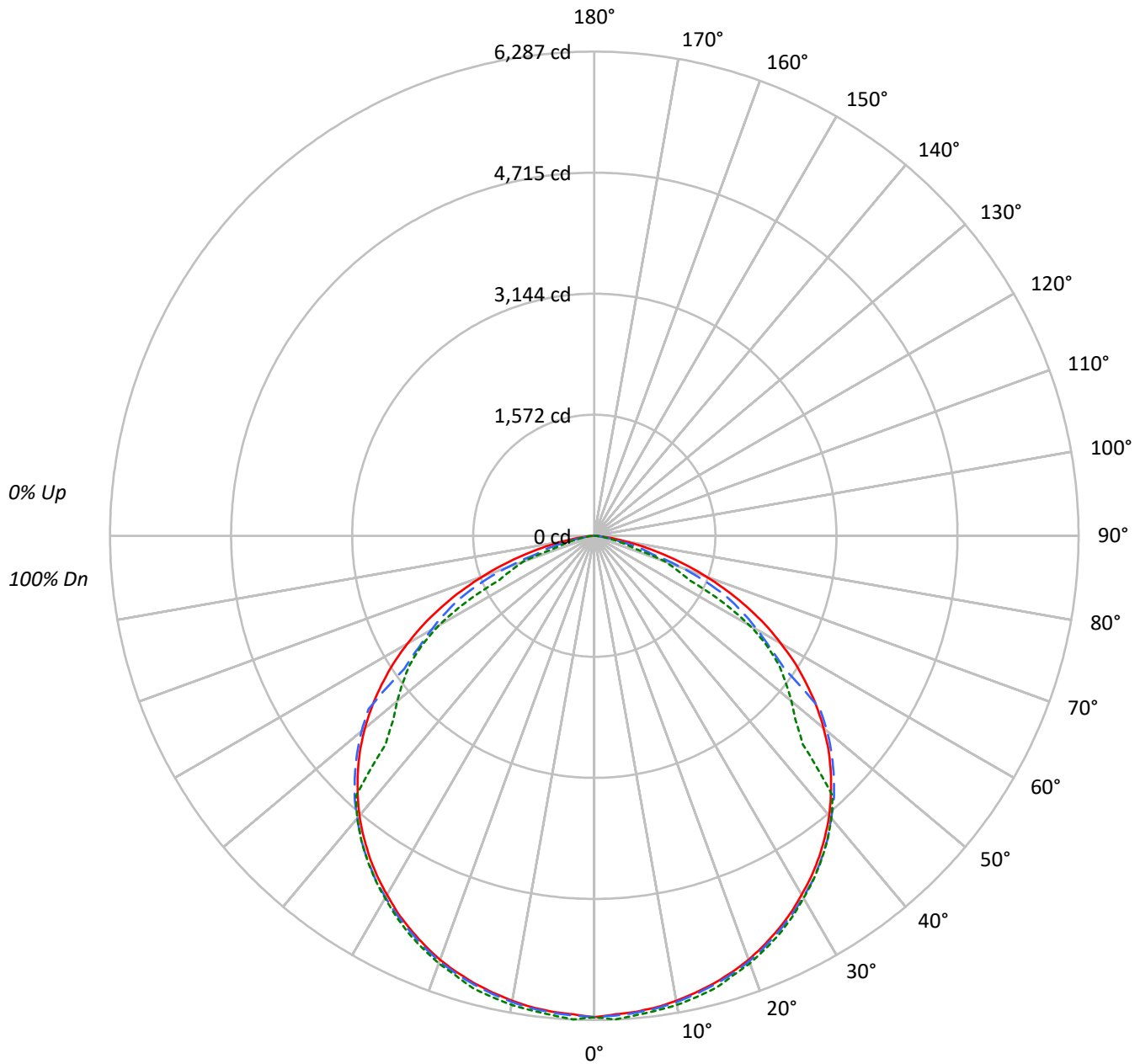
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29		
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10091	10091	10091
5°	10055	10077	10126
10°	10054	10082	10141
15°	10053	10083	10165
20°	10066	10103	10150
25°	10054	10092	10153
30°	10035	10109	10132
35°	10030	10122	10129
40°	9999	10087	10087
45°	9913	10033	8742
50°	9760	9907	8388
55°	9483	8481	8239
60°	9038	7883	7527
65°	8359	7318	5213
70°	7278	5694	4645
75°	5749	3822	2497
80°	3701	1825	1556
85°	1523	1113	1226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.9	3.5
10°-20°	1708.9	10.1
20°-30°	2620.0	15.5
30°-40°	3211.2	19.0
40°-50°	3301.4	19.5
50°-60°	2817.5	16.7
60°-70°	1862.7	11.0
70°-80°	690.1	4.1
80°-90°	92.3	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°	4921.7	29.1
0°-40°	8132.9	48.1
0°-60°	14251.8	84.3
0°-90°	16897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6250	6250	6250	6250	6250	
5°	6204	6247	6217	6242	6248	590
15°	6014	6051	6032	6078	6081	1699
25°	5644	5673	5665	5716	5699	2602
35°	5089	5124	5135	5167	5139	3183
45°	4342	4385	4394	4387	3829	3346
55°	3369	3431	3013	2925	2927	3006
65°	2188	2206	1916	1575	1364	2157
75°	922	807	613	412	400	989
85°	82	59	60	65	66	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6250.1	6250.1	6250.1	6250.1	6250.1
2.5°	6219.7	6258.5	6235.6	6264.6	6286.6
5°	6203.7	6247.1	6217.4	6241.7	6247.8
7.5°	6176.3	6216.6	6189.2	6221.2	6216.6
10°	6132.2	6168.7	6149.7	6183.2	6185.4
12.5°	6075.9	6112.4	6094.9	6135.9	6135.2
15°	6014.2	6050.8	6032.4	6078.2	6081.2
17.5°	5941.9	5975.4	5961.7	6003.6	5986.8
20°	5858.2	5887.1	5880.2	5919.9	5907.6
22.5°	5755.4	5785.1	5778.3	5824.0	5805.7
25°	5643.6	5673.3	5664.9	5715.9	5699.2
27.5°	5522.6	5550.7	5550.0	5598.0	5572.1
30°	5382.6	5419.9	5422.2	5464.8	5434.3
32.5°	5244.1	5279.1	5289.0	5320.2	5294.3
35°	5088.9	5123.8	5135.3	5167.3	5139.1
37.5°	4921.4	4951.1	4971.6	4995.2	4973.1
40°	4744.1	4770.7	4786.0	4814.8	4786.0
42.5°	4546.2	4584.3	4605.6	4626.2	4579.0
45°	4341.5	4384.9	4394.0	4387.2	3828.6
47.5°	4124.7	4171.8	4177.2	3643.0	3540.2
50°	3885.7	3945.1	3944.3	3366.6	3339.3
52.5°	3636.9	3693.9	3691.7	3150.6	3132.3
55°	3368.9	3430.6	3012.8	2925.3	2926.8
57.5°	3095.8	3139.9	2703.1	2706.9	2656.6
60°	2799.0	2840.8	2441.3	2417.7	2330.9
62.5°	2501.5	2518.9	2187.9	2072.9	1907.8
65°	2187.9	2206.1	1915.5	1575.3	1364.5
67.5°	1866.0	1884.3	1589.7	1172.0	1155.9
70°	1541.8	1392.6	1206.2	976.4	984.0
72.5°	1222.2	1070.0	788.4	756.4	546.4
75°	921.6	807.4	612.6	411.7	400.3
77.5°	641.5	556.3	328.0	280.8	262.6
80°	398.0	279.3	196.3	174.3	167.4
82.5°	201.7	160.6	106.6	106.6	106.6
85°	82.2	58.6	60.1	65.4	66.2
87.5°	17.5	23.6	28.9	29.7	28.9
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)