

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: P730617

Luminaire Tested: **HBLED-LD5-18SE-W-AI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-AI-UNV-L740
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17309.0 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

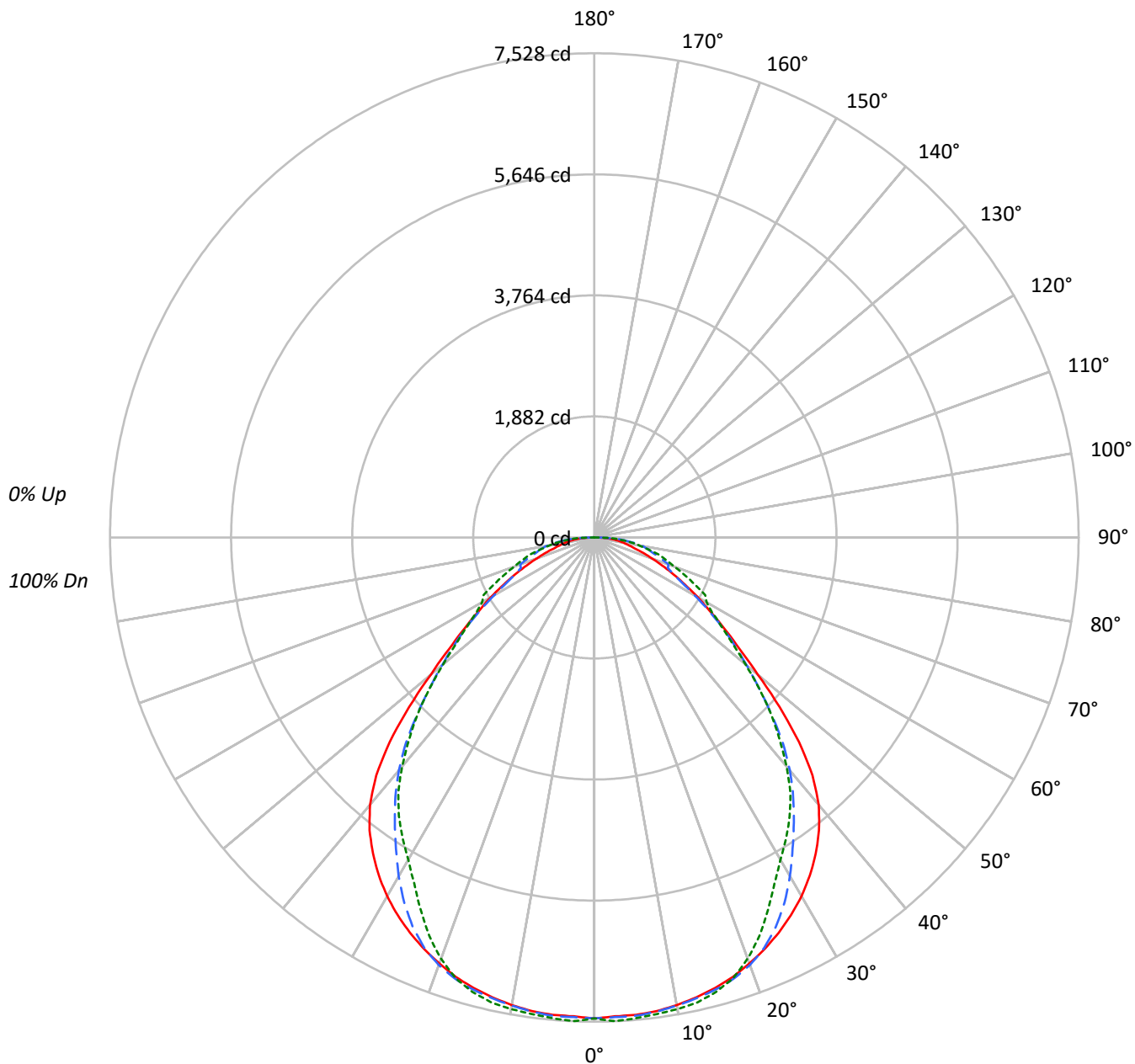
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12074	12074	12074
5°	12073	12099	12158
10°	12103	12118	12208
15°	12122	12167	12227
20°	12110	12155	11974
25°	12079	11898	11381
30°	12008	11337	10784
35°	11827	10655	10433
40°	11431	9963	9798
45°	10275	8896	8863
50°	8334	7749	7696
55°	6920	6791	6789
60°	5991	5816	6502
65°	5192	5160	6554
70°	4477	5788	6248
75°	4015	5933	6513
80°	4173	6984	6535
85°	4737	8047	7468



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.0	4.1
10°-20°	2056.3	11.9
20°-30°	3054.1	17.6
30°-40°	3467.2	20.0
40°-50°	3099.6	17.9
50°-60°	2143.0	12.4
60°-70°	1414.1	8.2
70°-80°	954.0	5.5
80°-90°	408.6	2.4
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°	5822.4	33.6
0°-40°	9289.6	53.7
0°-60°	14532.3	84.0
0°-90°	17309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7478	7478	7478	7478	7478	
5°	7449	7495	7465	7496	7502	709
15°	7252	7287	7279	7320	7315	2047
25°	6780	6845	6679	6480	6388	3124
35°	6000	5874	5406	5327	5293	3742
45°	4500	4119	3896	3926	3882	3422
55°	2458	2244	2412	2379	2412	2233
65°	1359	1207	1351	1579	1716	1356
75°	644	810	951	1016	1044	703
85°	256	356	434	437	403	267
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7478.0	7478.0	7478.0	7478.0	7478.0
2.5°	7452.6	7499.2	7464.5	7496.7	7528.0
5°	7449.2	7495.0	7465.3	7495.8	7501.7
7.5°	7428.0	7470.4	7435.6	7465.3	7472.1
10°	7382.3	7432.3	7391.6	7437.4	7445.9
12.5°	7323.1	7373.9	7338.3	7400.9	7404.4
15°	7251.9	7286.6	7279.0	7319.6	7314.6
17.5°	7162.1	7202.0	7196.0	7206.2	7182.5
20°	7047.9	7092.7	7074.1	7027.5	6969.1
22.5°	6925.1	6979.2	6905.6	6787.9	6705.7
25°	6780.2	6844.6	6678.7	6479.7	6388.2
27.5°	6620.2	6677.8	6401.7	6157.9	6063.0
30°	6440.7	6465.2	6080.8	5848.8	5784.4
32.5°	6233.2	6197.7	5737.8	5584.6	5547.3
35°	6000.4	5874.2	5405.9	5327.2	5293.3
37.5°	5737.8	5506.7	5078.2	5041.8	5006.2
40°	5423.7	5082.4	4726.8	4703.1	4648.9
42.5°	5018.1	4620.9	4336.4	4308.5	4260.2
45°	4499.9	4118.8	3896.1	3925.7	3881.7
47.5°	3903.7	3615.0	3473.6	3554.8	3473.6
50°	3317.7	3123.8	3084.9	3158.6	3063.7
52.5°	2837.6	2663.2	2743.6	2756.3	2699.6
55°	2458.2	2244.0	2412.5	2378.6	2411.6
57.5°	2128.0	1888.3	2095.8	2056.9	2170.3
60°	1855.3	1586.1	1801.2	1792.7	2013.6
62.5°	1587.8	1372.7	1545.4	1669.9	1941.7
65°	1359.1	1206.7	1350.6	1579.3	1715.6
67.5°	1139.8	1082.2	1235.4	1362.5	1511.6
70°	948.4	978.0	1226.1	1202.4	1323.5
72.5°	787.5	888.3	1082.2	1086.4	1172.0
75°	643.6	809.6	951.0	1016.2	1044.1
77.5°	535.2	734.2	858.7	881.5	854.4
80°	448.8	646.9	751.1	741.0	702.8
82.5°	362.4	490.3	591.9	601.3	556.3
85°	255.7	355.7	434.4	437.0	403.1
87.5°	137.2	219.3	263.4	271.0	250.6
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)