

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: P730652

Luminaire Tested: **HBLED-LD5-18SE-W-WG-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-WG-UNV-L735
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18039.0 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

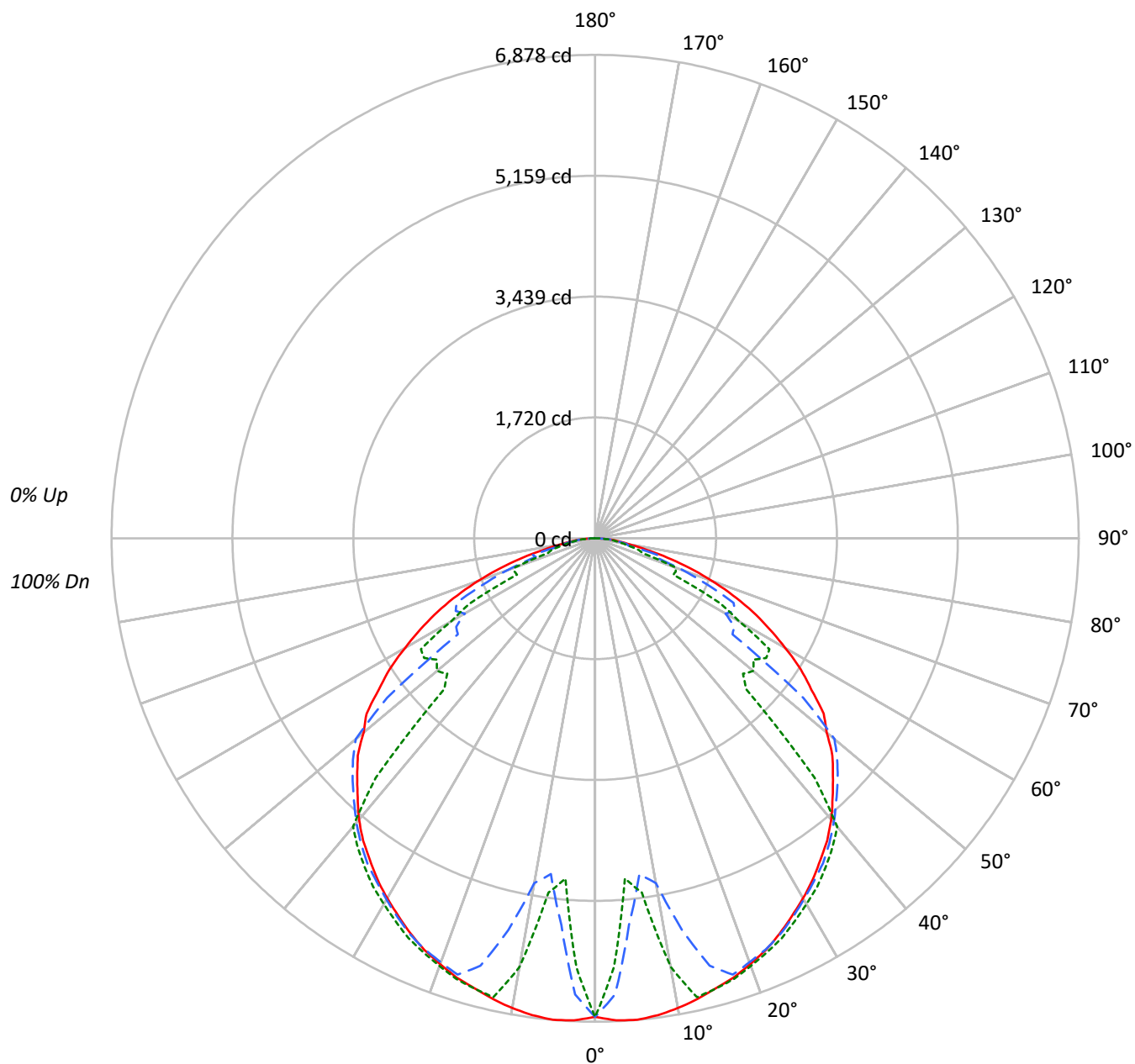
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31		
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10994	10994	10994
5°	11147	8955	7875
10°	11128	8167	10157
15°	11078	10526	11088
20°	11078	11028	11126
25°	11059	11083	11185
30°	11026	11063	11206
35°	11009	11131	11261
40°	11010	11131	11290
45°	10924	11138	6922
50°	10800	11160	7377
55°	10573	6711	8361
60°	10086	6917	7656
65°	9450	8305	4685
70°	8344	6292	5742
75°	6649	5719	3983
80°	4580	4133	3422
85°	4389	3816	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.5	3.0
10°-20°	1705.8	9.5
20°-30°	2806.4	15.6
30°-40°	3528.7	19.6
40°-50°	3460.8	19.2
50°-60°	2867.4	15.9
60°-70°	2022.5	11.2
70°-80°	882.4	4.9
80°-90°	220.5	1.2
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°	5056.7	28.0
0°-40°	8585.5	47.6
0°-60°	14913.7	82.7
0°-90°	18039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6809	6809	6809	6809	6809	
5°	6878	6401	5525	5010	4859	653
15°	6628	4603	6297	6654	6633	1874
25°	6208	5680	6221	6263	6278	2861
35°	5585	5582	5647	5685	5713	3499
45°	4784	4799	4878	4320	3031	3693
55°	3756	3879	2384	2710	2970	3360
65°	2474	2619	2174	1672	1226	2432
75°	1066	1045	917	599	638	1143
85°	237	211	206	197	195	246
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6809.1	6809.1	6809.1	6809.1	6809.1
2.5°	6865.3	6722.8	6496.5	6211.5	6110.6
5°	6877.5	6401.2	5525.1	5009.8	4859.1
7.5°	6842.5	5817.4	4816.8	4925.0	5084.7
10°	6787.2	5304.5	4981.3	5860.6	6195.2
12.5°	6716.3	4848.6	5706.7	6620.2	6687.0
15°	6627.5	4602.7	6297.0	6653.6	6633.3
17.5°	6552.6	4746.8	6508.7	6586.8	6572.2
20°	6447.6	5034.2	6418.3	6481.0	6475.3
22.5°	6341.8	5374.5	6332.8	6377.6	6377.6
25°	6207.5	5679.9	6221.3	6262.8	6278.3
27.5°	6060.0	5855.7	6082.0	6116.2	6143.9
30°	5914.3	5881.0	5933.9	5977.8	6010.4
32.5°	5760.5	5747.5	5788.9	5835.4	5876.9
35°	5585.4	5582.1	5647.2	5684.7	5713.3
37.5°	5420.9	5409.6	5469.8	5521.9	5543.9
40°	5223.9	5223.9	5280.9	5333.8	5356.6
42.5°	4999.1	5031.0	5074.9	5129.4	4619.7
45°	4784.2	4798.9	4877.8	4320.2	3031.3
47.5°	4577.4	4596.1	4671.1	2777.2	2853.0
50°	4299.8	4384.4	4443.1	2769.1	2936.8
52.5°	4097.1	4133.6	3729.8	2741.4	2835.8
55°	3755.9	3878.8	2383.9	2710.5	2970.2
57.5°	3464.4	3554.0	2344.1	2777.2	2938.4
60°	3123.3	3260.1	2142.1	2679.5	2370.9
62.5°	2795.9	2926.2	2236.6	2108.8	2007.8
65°	2473.5	2619.3	2173.9	1672.4	1226.2
67.5°	2120.1	1984.2	1734.2	1178.2	1240.0
70°	1767.6	1385.8	1332.9	1317.4	1216.4
72.5°	1405.3	1011.2	885.0	988.5	707.5
75°	1065.8	1044.6	916.8	599.2	638.4
77.5°	739.3	753.9	490.9	584.6	485.2
80°	492.6	426.7	444.5	372.9	368.0
82.5°	341.2	348.5	292.3	283.3	287.4
85°	236.9	210.9	206.0	197.1	195.4
87.5°	78.9	92.0	85.5	77.4	82.3
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)