

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: P730632

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33385)
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-WG-UNV-L840
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS,
WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16616.0 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

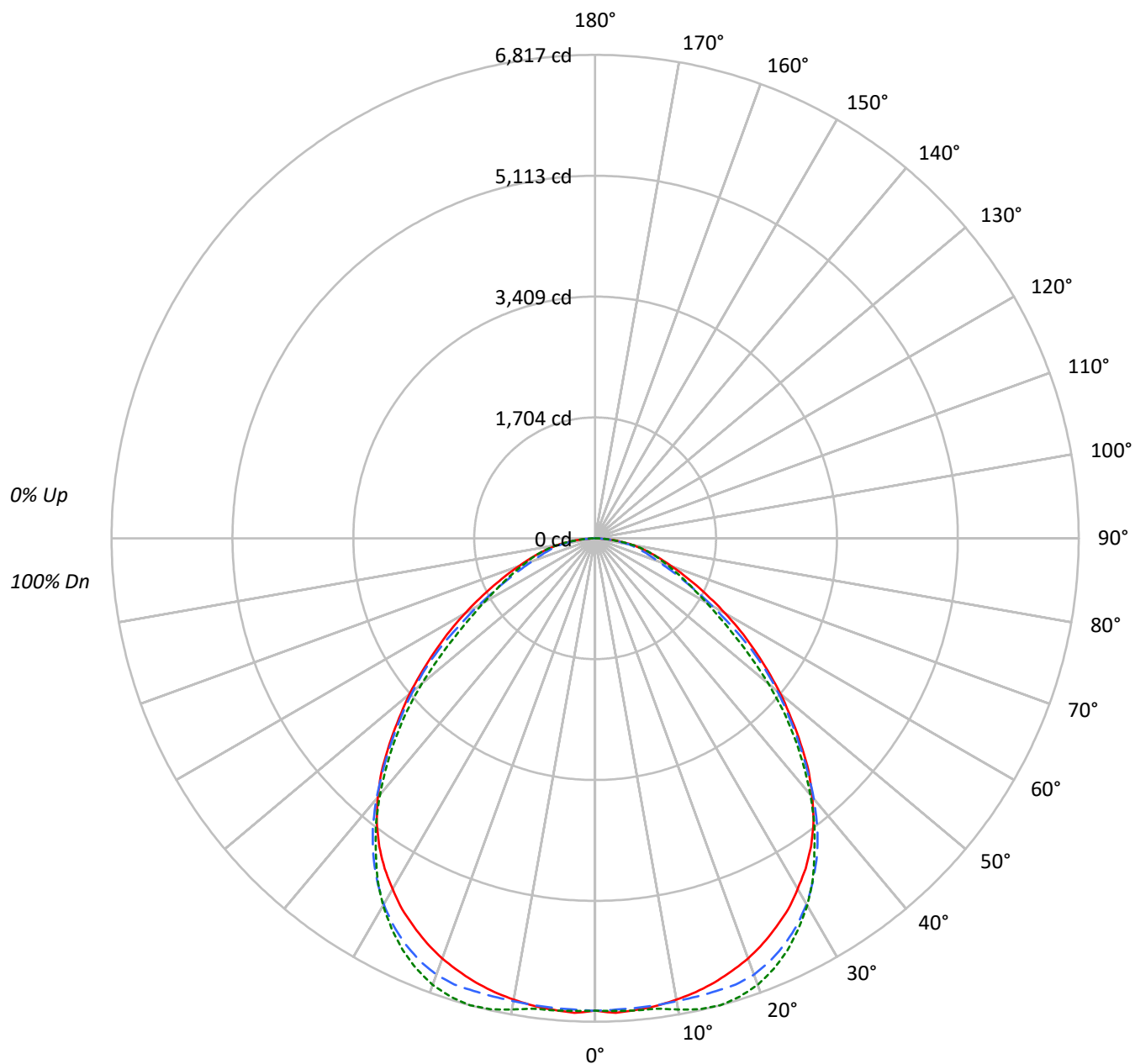
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	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	65	57	52	63	56	51	61	55	50	60	54	50	48		
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42		
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38		
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31		
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10757	10757	10757
5°	10821	10776	10829
10°	10830	10867	11061
15°	10844	11048	11395
20°	10836	11250	11513
25°	10770	11260	11425
30°	10646	11111	11146
35°	10456	10751	10622
40°	10044	10105	9946
45°	9358	9260	9072
50°	8568	8430	7998
55°	7696	7411	6763
60°	6826	6132	5838
65°	6014	5095	5298
70°	5379	4421	5046
75°	5039	4299	5103
80°	4905	4346	4857
85°	3916	3438	3564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.7	3.8
10°-20°	1869.5	11.3
20°-30°	2876.0	17.3
30°-40°	3356.4	20.2
40°-50°	3119.0	18.8
50°-60°	2311.9	13.9
60°-70°	1413.3	8.5
70°-80°	805.0	4.8
80°-90°	230.2	1.4
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°	5380.1	32.4
0°-40°	8736.5	52.6
0°-60°	14167.4	85.3
0°-90°	16616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16616.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6663	6663	6663	6663	6663	
5°	6676	6645	6649	6644	6682	635
15°	6487	6484	6609	6740	6817	1831
25°	6046	6092	6321	6374	6413	2785
35°	5305	5346	5454	5410	5389	3305
45°	4098	4123	4056	3992	3973	3158
55°	2734	2665	2633	2445	2402	2454
65°	1574	1430	1334	1370	1387	1575
75°	808	758	689	785	818	864
85°	211	206	186	192	192	244
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6662.6	6662.6	6662.6	6662.6	6662.6
2.5°	6698.6	6660.8	6653.9	6638.5	6672.8
5°	6676.3	6645.3	6648.7	6643.7	6681.5
7.5°	6650.5	6628.2	6641.9	6640.2	6690.0
10°	6605.9	6593.8	6628.2	6666.0	6746.8
12.5°	6556.0	6544.0	6619.6	6715.8	6803.5
15°	6487.3	6483.8	6609.3	6739.8	6817.2
17.5°	6401.3	6406.5	6597.2	6709.0	6777.7
20°	6306.8	6315.4	6547.4	6638.5	6700.4
22.5°	6184.8	6214.0	6451.1	6526.7	6574.9
25°	6045.6	6092.0	6320.6	6373.9	6413.3
27.5°	5896.1	5942.5	6159.0	6186.5	6208.9
30°	5710.5	5775.8	5959.6	5963.1	5978.6
32.5°	5521.5	5579.9	5720.8	5705.3	5708.7
35°	5304.9	5346.2	5454.4	5409.8	5389.1
37.5°	5055.8	5078.1	5146.8	5079.8	5076.4
40°	4765.3	4794.5	4794.5	4701.8	4718.9
42.5°	4456.0	4466.3	4423.4	4335.7	4349.4
45°	4098.5	4122.6	4055.6	3992.0	3973.1
47.5°	3744.5	3768.6	3698.2	3624.3	3591.6
50°	3411.2	3399.1	3356.2	3230.7	3184.3
52.5°	3065.8	3028.0	3010.8	2826.9	2773.6
55°	2734.1	2665.4	2632.7	2445.4	2402.4
57.5°	2426.5	2302.8	2240.9	2094.9	2077.6
60°	2113.8	1974.5	1898.9	1804.4	1807.8
62.5°	1830.2	1684.1	1593.0	1565.6	1577.6
65°	1574.1	1429.7	1333.6	1369.6	1386.8
67.5°	1342.1	1223.6	1115.3	1199.5	1216.6
70°	1139.4	1044.8	936.6	1060.3	1068.9
72.5°	970.9	893.6	802.5	919.4	938.3
75°	807.7	757.9	689.1	785.4	818.0
77.5°	665.0	625.6	586.0	644.5	680.5
80°	527.5	488.1	467.4	498.3	522.4
82.5°	372.9	347.2	326.5	348.8	360.9
85°	211.4	206.2	185.6	192.4	192.4
87.5°	48.1	55.0	61.9	56.7	48.1
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)