

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: P730614

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23761)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-A-UNV-L840
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16466.0 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

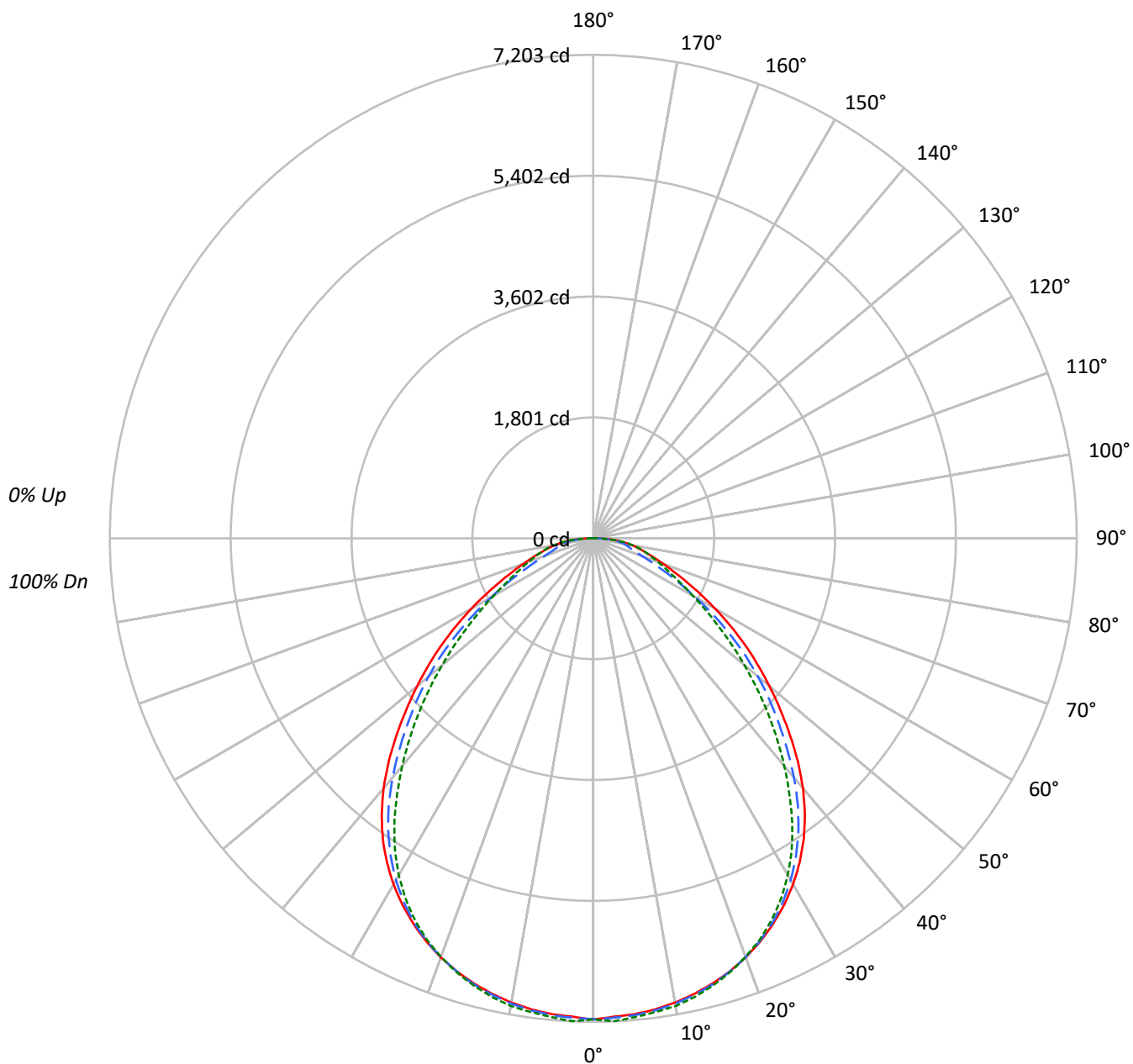
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	100	96		99	96	93		95	93	90		91	90	88
2	101	93	87	82	98	91	86	81		88	83	79		85	81	77		82	78	75
3	93	83	75	70	90	81	75	69		79	73	68		76	71	67		73	69	65
4	85	74	66	60	83	73	65	60		71	64	59		68	63	58		66	61	57
5	79	67	59	52	77	66	58	52		64	57	52		62	56	51		60	55	51
6	73	61	52	46	72	60	52	46		58	51	46		56	50	45		55	49	45
7	68	55	47	41	67	55	47	41		53	46	41		52	45	41		50	45	40
8	64	51	43	37	62	50	42	37		49	42	37		48	41	37		47	41	36
9	60	47	39	34	58	46	39	34		45	38	33		44	38	33		43	37	33
10	56	43	36	31	55	43	36	31		42	35	31		41	35	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11573	11573	11573
5°	11532	11558	11606
10°	11516	11542	11601
15°	11477	11500	11527
20°	11417	11409	11401
25°	11293	11255	11191
30°	11099	10964	10805
35°	10776	10505	10182
40°	10240	9800	9330
45°	9460	8932	8391
50°	8599	8043	7381
55°	7732	6963	6381
60°	6766	5691	5537
65°	5834	4475	4997
70°	5201	3652	4816
75°	4983	3565	5032
80°	5389	4217	5607
85°	6050	5078	6110



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.3	4.1
10°-20°	1944.2	11.8
20°-30°	2908.4	17.7
30°-40°	3318.2	20.2
40°-50°	3020.5	18.3
50°-60°	2217.9	13.5
60°-70°	1309.6	8.0
70°-80°	750.5	4.6
80°-90°	317.3	1.9
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°	5532.0	33.6
0°-40°	8850.2	53.7
0°-60°	14088.6	85.6
0°-90°	16466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16466.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7168	7168	7168	7168	7168	
5°	7115	7160	7132	7160	7161	676
15°	6866	6904	6880	6904	6896	1938
25°	6339	6362	6318	6315	6282	2918
35°	5467	5440	5330	5238	5166	3406
45°	4143	4119	3912	3736	3675	3193
55°	2747	2620	2474	2294	2267	2457
65°	1527	1333	1171	1253	1308	1537
75°	799	685	572	745	807	861
85°	327	302	274	323	330	342
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7167.9	7167.9	7167.9	7167.9	7167.9
2.5°	7134.7	7176.0	7150.1	7178.4	7202.7
5°	7115.4	7159.9	7131.5	7159.9	7160.6
7.5°	7079.8	7121.0	7093.6	7124.3	7121.0
10°	7024.0	7065.3	7040.2	7073.4	7075.8
12.5°	6952.9	6992.5	6966.7	7004.7	6998.2
15°	6866.4	6904.4	6880.1	6904.4	6896.3
17.5°	6764.5	6799.3	6767.8	6794.5	6780.8
20°	6644.9	6674.0	6640.1	6665.1	6635.2
22.5°	6501.9	6527.7	6492.1	6505.8	6475.1
25°	6339.3	6361.9	6317.5	6315.1	6281.9
27.5°	6158.2	6170.4	6113.8	6094.4	6056.4
30°	5953.0	5956.2	5881.0	5844.6	5795.3
32.5°	5722.5	5714.5	5618.2	5564.1	5503.4
35°	5467.1	5440.4	5329.7	5238.3	5165.6
37.5°	5178.5	5136.5	5003.9	4868.9	4799.3
40°	4858.4	4809.1	4649.8	4482.5	4426.7
42.5°	4510.0	4468.0	4280.4	4105.8	4050.8
45°	4143.0	4118.7	3911.7	3736.3	3674.9
47.5°	3776.0	3758.2	3556.1	3377.4	3303.0
50°	3423.5	3384.7	3202.0	3006.4	2938.5
52.5°	3081.5	3002.3	2841.5	2641.0	2590.9
55°	2746.9	2620.0	2473.7	2294.2	2266.7
57.5°	2415.4	2251.3	2109.1	1974.9	1974.1
60°	2095.4	1907.8	1762.3	1691.9	1714.6
62.5°	1795.4	1603.0	1445.4	1450.2	1491.5
65°	1527.0	1333.0	1171.3	1253.0	1308.0
67.5°	1296.7	1111.5	947.4	1099.4	1151.9
70°	1101.8	934.5	773.7	963.6	1020.2
72.5°	937.8	797.1	652.4	850.4	907.8
75°	798.7	684.7	571.5	745.3	806.7
77.5°	685.5	584.5	512.5	645.1	708.9
80°	579.6	490.7	453.5	548.1	603.0
82.5°	459.1	397.7	375.9	445.4	473.7
85°	326.6	301.5	274.1	323.3	329.8
87.5°	179.5	185.9	153.6	185.9	186.7
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)