

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: P730604

Luminaire Tested: **HBLED-LD5-18SE-N-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-N-UNV-L735
Description: 18000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18343.0 lumens
Efficiency: N/A
Efficacy: 159.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

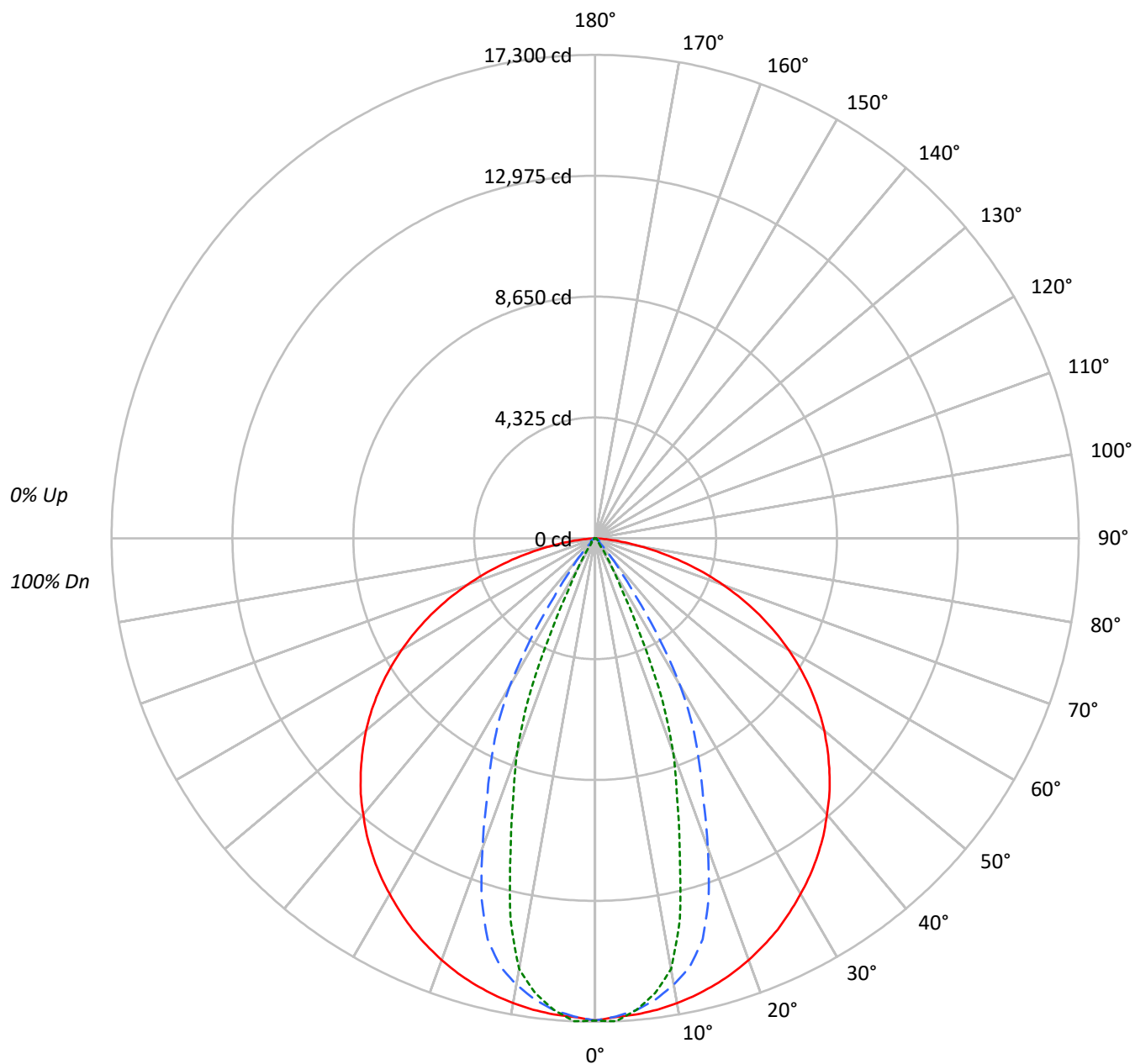
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55		
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27864	27864	27864
5°	27715	27470	27459
10°	27698	26590	25657
15°	27659	24842	19527
20°	27595	20251	14055
25°	27524	15658	6924
30°	27403	11380	2245
35°	27338	5049	578
40°	27195	2050	389
45°	27073	575	414
50°	26862	408	460
55°	26475	485	196
60°	25822	541	119
65°	24760	345	141
70°	23002	306	175
75°	20122	231	241
80°	15045	283	344
85°	7453	365	456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1601.6	8.7
10°-20°	4004.7	21.8
20°-30°	4337.7	23.6
30°-40°	3212.2	17.5
40°-50°	2313.7	12.6
50°-60°	1432.6	7.8
60°-70°	881.0	4.8
70°-80°	464.5	2.5
80°-90°	95.1	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°	9944.0	54.2
0°-40°	13156.2	71.7
0°-60°	16902.5	92.1
0°-90°	18343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18343.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17258	17258	17258	17258	17258	
5°	17100	17164	16949	16962	16942	###
15°	16547	16163	14862	12638	11682	4671
25°	15450	14152	8789	5529	3886	7119
35°	13870	9778	2562	603	293	8677
45°	11857	5509	252	182	181	9144
55°	9405	1135	172	156	70	8396
65°	6481	120	90	57	37	6394
75°	3226	28	37	48	39	3407
85°	402	11	20	30	25	608
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17257.9	17257.9	17257.9	17257.9	17257.9
2.5°	17147.1	17256.3	17127.4	17223.5	17299.8
5°	17100.3	17163.5	16949.2	16961.5	16941.9
7.5°	17018.2	17003.4	16643.0	16485.4	16416.5
10°	16894.3	16796.5	16218.6	15889.4	15649.6
12.5°	16734.2	16515.8	15689.1	14642.3	13992.1
15°	16547.0	16162.7	14861.5	12638.3	11681.8
17.5°	16323.6	15779.3	13508.5	10592.3	9738.6
20°	16060.1	15351.6	11786.0	9012.0	8180.3
22.5°	15766.2	14831.1	10112.9	7489.8	6303.5
25°	15450.1	14152.2	8789.4	5529.3	3886.5
27.5°	15084.8	13279.4	7548.1	3256.9	1983.5
30°	14698.1	12228.5	6104.0	1752.0	1204.4
32.5°	14308.1	11037.3	4319.2	1094.4	683.0
35°	13869.8	9777.9	2561.5	602.6	293.1
37.5°	13412.4	8623.6	1513.9	274.2	188.0
40°	12902.6	7568.7	972.8	182.2	184.7
42.5°	12410.1	6585.1	547.6	179.8	183.1
45°	11856.6	5508.8	252.0	182.2	181.4
47.5°	11284.4	4393.1	163.3	183.9	183.9
50°	10694.2	3141.1	162.6	188.0	183.1
52.5°	10071.0	1959.7	169.1	187.2	150.3
55°	9405.2	1134.6	172.4	156.0	69.8
57.5°	8715.6	669.1	174.1	89.5	39.4
60°	7996.4	370.2	167.5	66.5	37.0
62.5°	7255.0	176.5	132.2	62.4	36.1
65°	6480.8	119.9	90.3	57.4	37.0
67.5°	5677.1	92.7	71.4	54.2	37.8
70°	4872.5	68.9	64.9	54.2	37.0
72.5°	4054.9	46.8	54.2	55.0	37.0
75°	3225.6	27.9	37.0	48.5	38.6
77.5°	2403.8	17.2	28.7	50.1	46.8
80°	1618.1	14.8	30.4	46.8	37.0
82.5°	949.9	13.2	29.6	36.1	29.6
85°	402.3	10.7	19.7	29.6	24.6
87.5°	75.5	9.0	15.6	23.8	21.3
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)