

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: P730598

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-N-CLI-UNV-L735
Description: 18000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16972.0 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

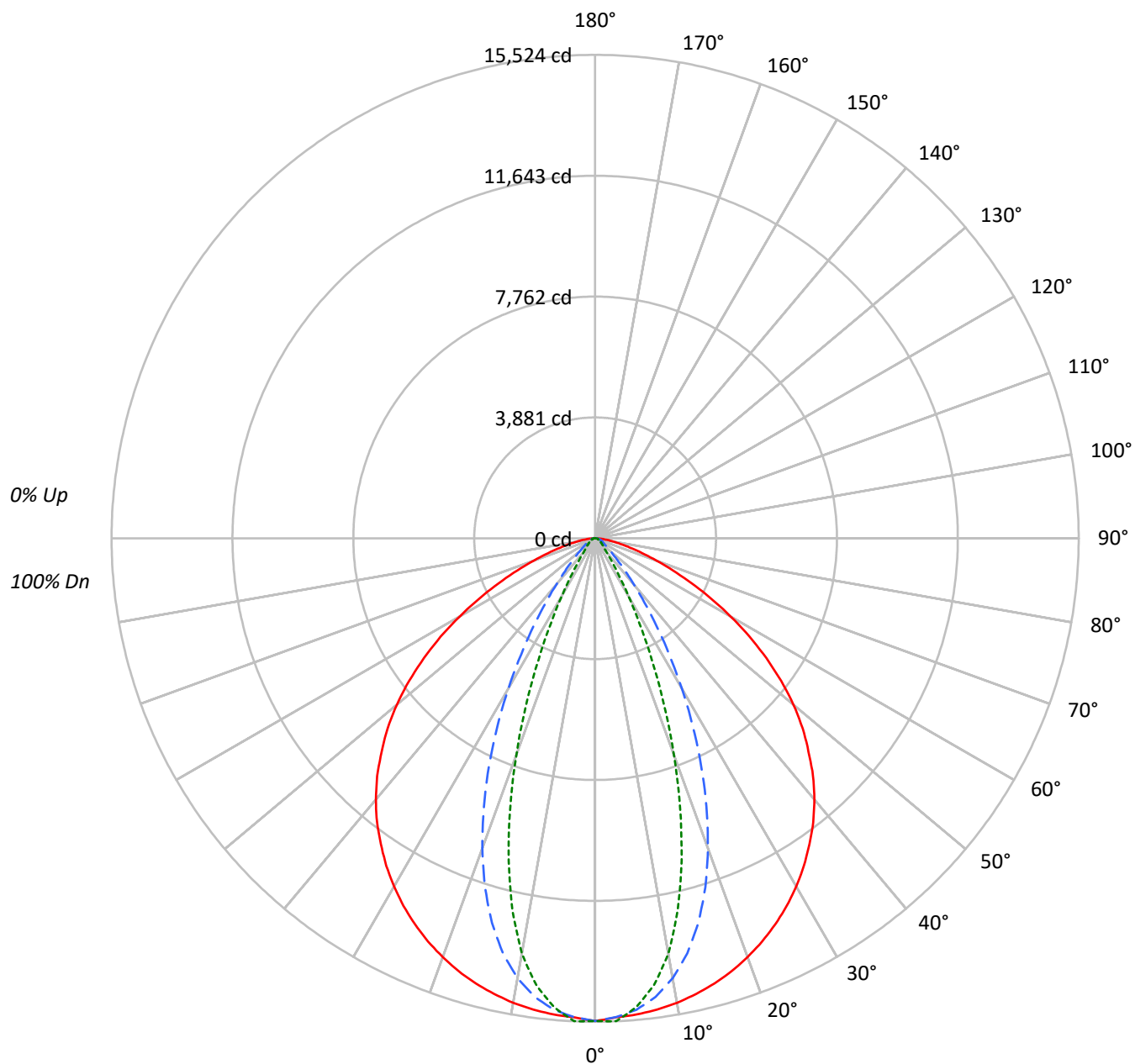
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
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	75	81	77	74	72						
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65						
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60						
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55						
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50						
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46						
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43						
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25030	25030	25030
5°	24880	24632	24503
10°	24838	23517	22192
15°	24738	21377	17922
20°	24590	18190	12703
25°	24370	14343	7675
30°	24074	10352	3944
35°	23639	6768	1970
40°	23079	4065	1150
45°	22120	2428	860
50°	20863	1587	722
55°	18882	1204	630
60°	16226	1026	575
65°	13052	936	543
70°	9833	1002	540
75°	7233	953	555
80°	5292	948	608
85°	3964	1150	785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1427.7	8.4
10°-20°	3551.8	20.9
20°-30°	3934.2	23.2
30°-40°	3152.0	18.6
40°-50°	2250.1	13.3
50°-60°	1445.3	8.5
60°-70°	783.2	4.6
70°-80°	334.8	2.0
80°-90°	92.8	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°	8913.8	52.5
0°-40°	12065.7	71.1
0°-60°	15761.1	92.9
0°-90°	16972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15503	15503	15503	15503	15503	
5°	15351	15408	15198	15150	15118	###
15°	14800	14337	12788	11302	10722	4176
25°	13679	12062	8051	5245	4308	6302
35°	11993	8675	3434	1385	999	7499
45°	9687	5008	1063	452	376	7467
55°	6708	2239	428	263	224	5978
65°	3416	919	245	169	142	3421
75°	1159	336	153	106	89	1288
85°	214	89	62	51	42	261
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15502.7	15502.7	15502.7	15502.7	15502.7
2.5°	15400.6	15497.0	15393.2	15457.7	15523.9
5°	15350.8	15408.0	15198.1	15149.9	15118.1
7.5°	15264.2	15247.9	14853.6	14598.0	14474.6
10°	15149.9	15017.6	14344.0	13782.3	13535.7
12.5°	14986.6	14713.9	13654.0	12667.7	12249.6
15°	14799.6	14336.7	12788.5	11301.7	10721.9
17.5°	14575.9	13895.7	11754.0	9836.8	9071.7
20°	14311.4	13363.4	10586.4	8280.5	7392.9
22.5°	14015.8	12749.4	9336.2	6729.0	5777.0
25°	13679.4	12061.8	8051.0	5245.4	4308.0
27.5°	13316.1	11298.4	6773.2	3919.4	3064.4
30°	12912.6	10472.0	5552.4	2826.1	2115.7
32.5°	12472.5	9593.5	4418.3	1987.4	1446.9
35°	11993.3	8674.9	3433.5	1384.8	999.4
37.5°	11502.5	7737.5	2593.3	979.0	716.9
40°	10949.7	6803.3	1928.7	716.9	545.4
42.5°	10356.1	5887.2	1427.3	551.9	441.7
45°	9687.3	5007.8	1063.2	452.4	376.5
47.5°	9039.0	4188.0	807.5	385.4	327.4
50°	8305.8	3448.3	632.0	336.4	287.4
52.5°	7527.6	2797.5	512.8	296.4	253.1
55°	6707.8	2238.9	427.8	262.9	223.7
57.5°	5877.4	1773.5	365.8	234.3	199.3
60°	5024.9	1418.3	317.6	209.8	178.0
62.5°	4192.9	1134.2	277.6	188.6	159.2
65°	3416.4	919.4	245.0	169.0	142.1
67.5°	2698.6	726.7	228.6	151.9	128.2
70°	2082.9	565.8	212.3	135.5	114.3
72.5°	1578.3	434.4	187.8	120.8	101.3
75°	1159.4	336.4	152.7	106.2	89.0
77.5°	829.6	258.9	124.1	92.2	76.8
80°	569.1	192.7	102.0	79.2	65.4
82.5°	369.9	136.4	82.5	65.4	53.9
85°	214.0	89.0	62.1	51.4	42.4
87.5°	92.2	49.0	42.4	38.4	32.6
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)