

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: P730588

Luminaire Tested: **HBLED-LD5-18SE-N-CL-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-N-CL-UNV-L750
Description: 18000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18128.0 lumens
Efficiency: N/A
Efficacy: 157.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

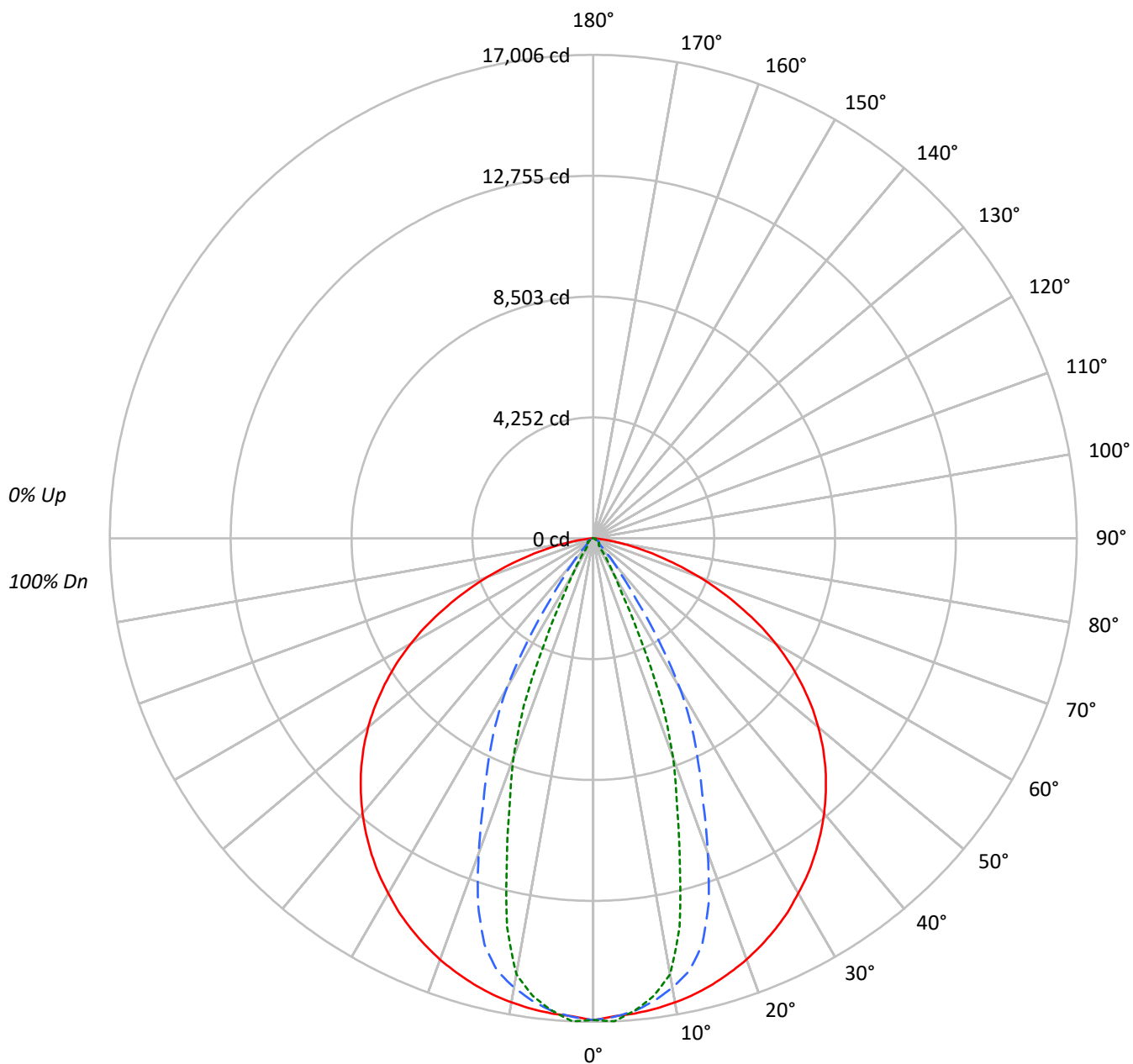
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90		
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73		
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66		
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51		
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47		
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27367	27367	27367
5°	27199	27057	27038
10°	27181	26309	25533
15°	27150	24740	19632
20°	27097	20246	14082
25°	27012	15599	7156
30°	26884	11384	2604
35°	26788	5228	906
40°	26623	2373	625
45°	26387	885	634
50°	25966	643	667
55°	25197	676	508
60°	23945	723	448
65°	21715	550	364
70°	18618	397	336
75°	14231	352	319
80°	8904	331	347
85°	2812	385	467



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1578.0	8.7
10°-20°	3975.2	21.9
20°-30°	4329.2	23.9
30°-40°	3238.5	17.9
40°-50°	2328.5	12.8
50°-60°	1430.1	7.9
60°-70°	822.9	4.5
70°-80°	367.3	2.0
80°-90°	58.3	0.3
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°	9882.5	54.5
0°-40°	13121.0	72.4
0°-60°	16879.6	93.1
0°-90°	18128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16950	16950	16950	16950	16950	
5°	16782	16861	16694	16710	16682	###
15°	16242	15931	14801	12711	11745	4585
25°	15162	14075	8756	5618	4017	6989
35°	13591	9748	2652	780	460	8501
45°	11556	5477	388	287	278	8902
55°	8951	1138	240	232	180	7981
65°	5684	125	144	120	95	5626
75°	2281	76	56	58	51	2475
85°	152	15	21	27	25	302
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16950.1	16950.1	16950.1	16950.1	16950.1
2.5°	16832.2	16942.3	16849.5	16932.8	17006.5
5°	16781.9	16860.8	16694.3	16709.9	16682.2
7.5°	16695.1	16714.2	16413.3	16297.0	16240.6
10°	16578.9	16527.8	16047.2	15770.6	15573.7
12.5°	16432.4	16263.2	15591.8	14603.9	14015.0
15°	16242.4	15931.0	14800.8	12711.4	11745.0
17.5°	16016.0	15584.0	13491.1	10594.0	9757.9
20°	15770.6	15200.7	11783.2	9007.7	8195.8
22.5°	15480.8	14710.6	10098.8	7491.5	6376.9
25°	15162.5	14074.8	8756.1	5618.0	4016.8
27.5°	14819.1	13236.1	7513.1	3445.2	2171.9
30°	14420.0	12215.2	6106.3	1933.4	1396.5
32.5°	14030.6	11025.2	4362.0	1288.0	892.5
35°	13590.8	9747.5	2652.4	779.8	459.7
37.5°	13125.0	8586.1	1660.2	424.1	317.4
40°	12631.5	7484.5	1125.8	301.0	296.7
42.5°	12104.1	6487.9	705.1	286.2	295.7
45°	11556.0	5476.6	387.7	287.1	277.6
47.5°	10961.0	4378.5	270.6	271.5	270.6
50°	10337.4	3140.7	255.9	268.0	265.5
52.5°	9665.1	1949.9	256.7	261.9	235.1
55°	8951.3	1138.0	240.3	232.5	180.4
57.5°	8200.9	709.5	235.1	191.7	162.2
60°	7415.1	374.7	223.8	172.6	138.8
62.5°	6578.1	184.8	179.5	147.5	113.6
65°	5683.8	124.9	144.0	119.7	95.4
67.5°	4820.0	112.7	108.5	98.0	83.3
70°	3943.9	103.2	84.1	85.9	71.1
72.5°	3084.4	93.6	67.6	73.7	59.8
75°	2281.2	75.5	56.4	58.1	51.2
77.5°	1587.3	59.0	44.3	49.5	47.7
80°	957.6	37.3	35.6	40.8	37.3
82.5°	464.0	24.3	27.8	32.1	29.5
85°	151.8	14.7	20.8	26.9	25.2
87.5°	19.1	8.7	17.3	23.4	21.7
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)