

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: P730600

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730600
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-L750
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: 17907.0 lumens
Efficiency: N/A
Efficacy: 156.0 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

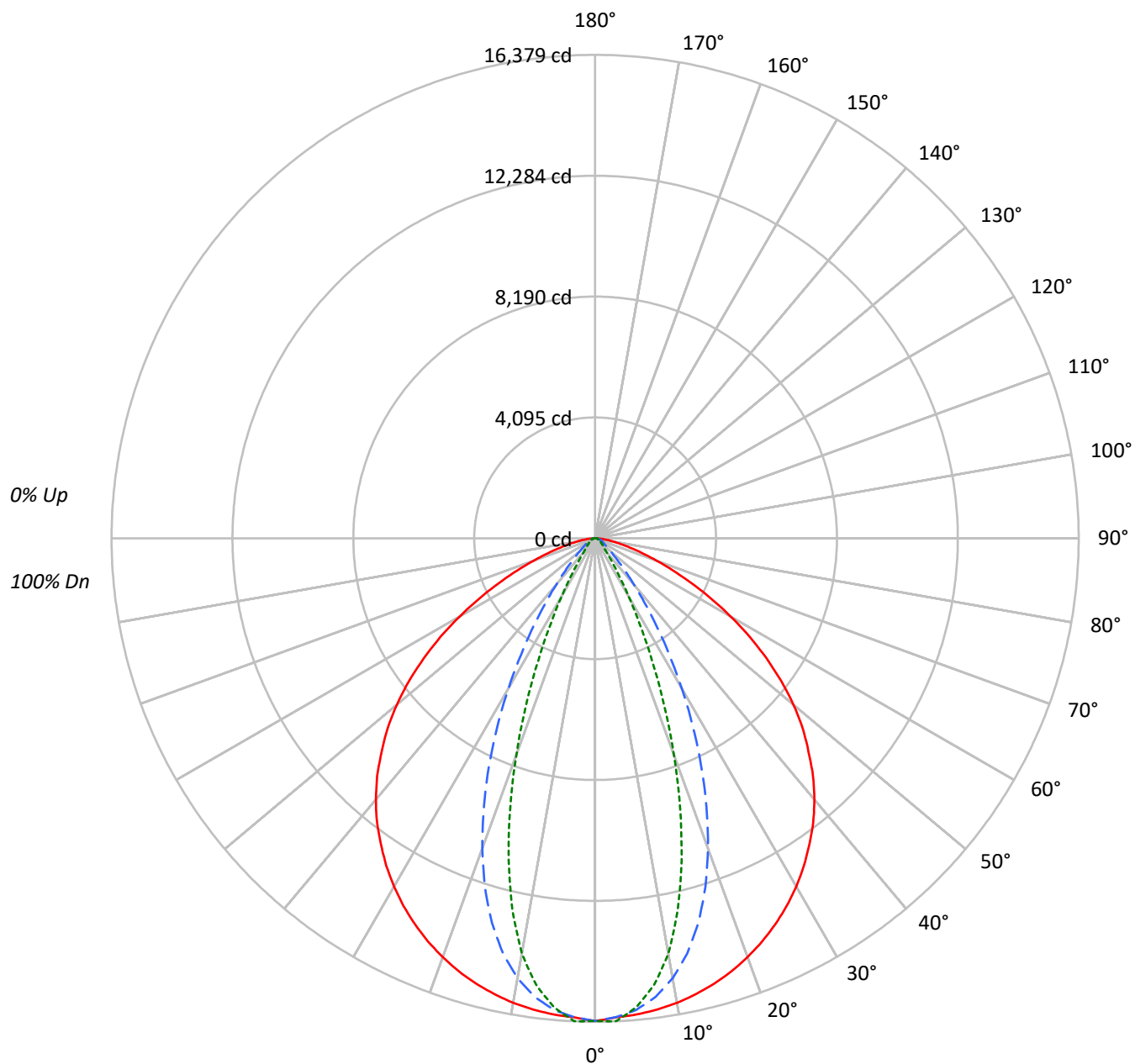
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	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°	26409	26409	26409
5°	26251	25989	25853
10°	26207	24812	23414
15°	26101	22554	18910
20°	25945	19192	13402
25°	25712	15133	8097
30°	25400	10922	4162
35°	24942	7140	2078
40°	24350	4289	1213
45°	23338	2561	907
50°	22012	1675	762
55°	19922	1271	665
60°	17120	1082	606
65°	13771	988	573
70°	10375	1057	569
75°	7631	1005	586
80°	5583	1001	642
85°	4181	1213	830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1506.4	8.4
10°-20°	3747.5	20.9
20°-30°	4150.9	23.2
30°-40°	3325.6	18.6
40°-50°	2374.1	13.3
50°-60°	1524.9	8.5
60°-70°	826.4	4.6
70°-80°	353.2	2.0
80°-90°	98.0	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°	9404.8	52.5
0°-40°	12730.5	71.1
0°-60°	16629.4	92.9
0°-90°	17907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16357	16357	16357	16357	16357	
5°	16196	16257	16035	15984	15951	###
15°	15615	15126	13493	11924	11313	4406
25°	14433	12726	8495	5534	4545	6649
35°	12654	9153	3623	1461	1054	7912
45°	10221	5284	1122	477	397	7878
55°	7077	2362	451	277	236	6307
65°	3605	970	258	178	150	3610
75°	1223	355	161	112	94	1359
85°	226	94	66	54	45	276
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16356.7	16356.7	16356.7	16356.7	16356.7
2.5°	16249.1	16350.7	16241.3	16309.3	16379.1
5°	16196.5	16256.8	16035.4	15984.5	15951.0
7.5°	16105.1	16087.9	15671.9	15402.2	15272.1
10°	15984.5	15845.0	15134.2	14541.5	14281.4
12.5°	15812.3	15524.5	14406.2	13365.5	12924.5
15°	15615.0	15126.5	13493.0	11924.3	11312.6
17.5°	15378.9	14661.3	12401.5	10378.7	9571.5
20°	15099.8	14099.6	11169.6	8736.6	7800.1
22.5°	14788.0	13451.7	9850.6	7099.7	6095.3
25°	14433.0	12726.3	8494.6	5534.4	4545.3
27.5°	14049.6	11920.8	7146.3	4135.3	3233.2
30°	13624.0	11049.0	5858.3	2981.8	2232.2
32.5°	13159.6	10122.0	4661.7	2096.9	1526.6
35°	12654.0	9152.8	3622.6	1461.1	1054.5
37.5°	12136.2	8163.7	2736.2	1032.9	756.4
40°	11552.9	7178.1	2034.9	756.4	575.5
42.5°	10926.6	6211.5	1506.0	582.3	466.1
45°	10221.0	5283.7	1121.7	477.3	397.2
47.5°	9537.0	4418.8	852.0	406.6	345.5
50°	8763.4	3638.2	666.8	355.0	303.2
52.5°	7942.3	2951.6	541.0	312.7	267.1
55°	7077.3	2362.3	451.4	277.4	236.1
57.5°	6201.2	1871.2	386.0	247.2	210.2
60°	5301.8	1496.4	335.1	221.4	187.8
62.5°	4423.9	1196.7	292.9	199.0	168.0
65°	3604.6	970.0	258.5	178.3	149.9
67.5°	2847.3	766.8	241.2	160.2	135.3
70°	2197.7	597.0	224.0	143.0	120.6
72.5°	1665.3	458.4	198.2	127.5	106.8
75°	1223.3	355.0	161.1	112.0	93.9
77.5°	875.3	273.1	130.9	97.3	81.0
80°	600.5	203.4	107.7	83.6	69.0
82.5°	390.3	143.9	87.0	69.0	56.8
85°	225.7	93.9	65.5	54.3	44.8
87.5°	97.3	51.7	44.8	40.5	34.4
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)