

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: P730606

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730606
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-L750
Description: 18000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19354.0 lumens
Efficiency: N/A
Efficacy: 168.6 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

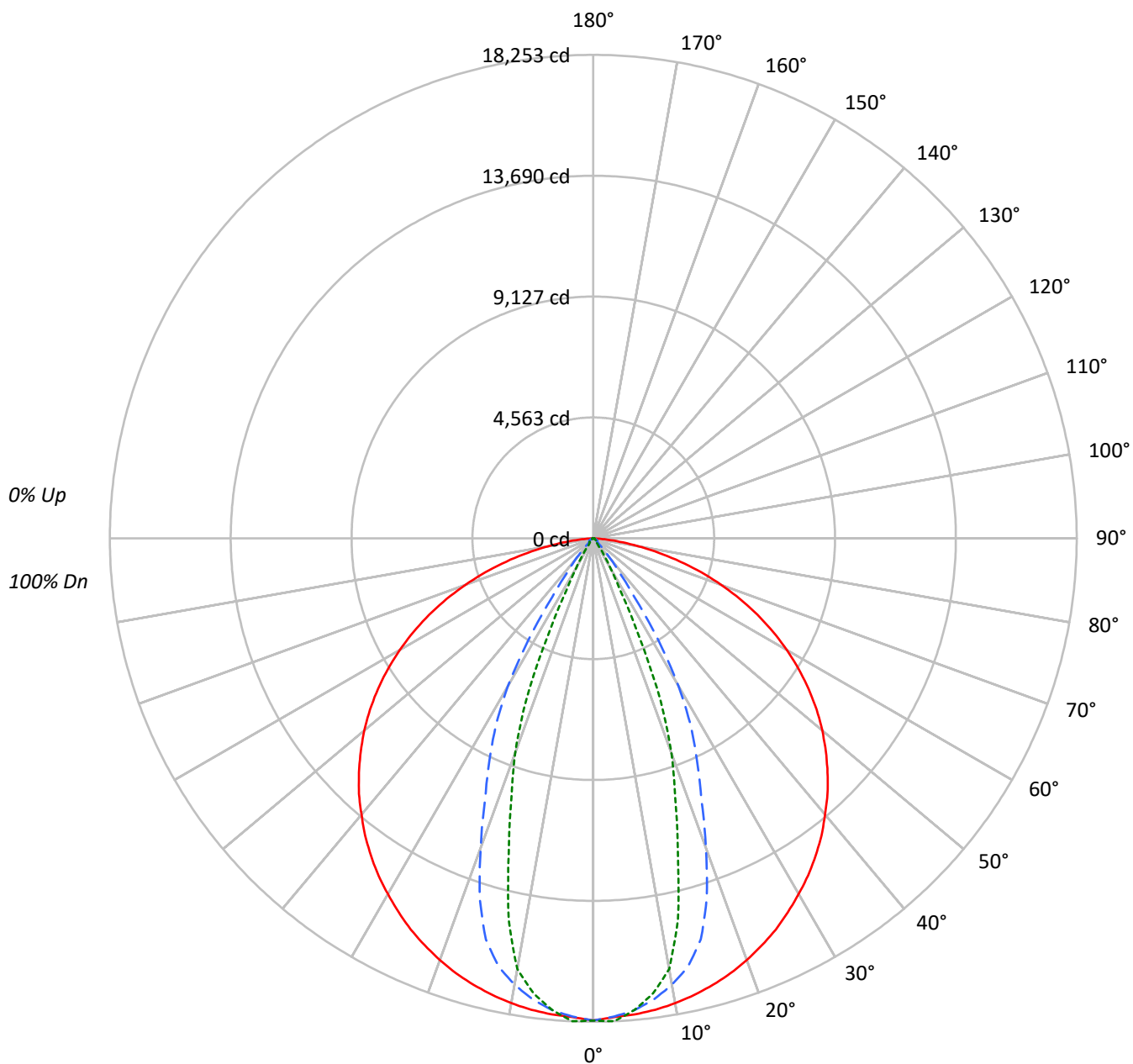
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	29400	29400	29400
5°	29243	28985	28972
10°	29225	28056	27072
15°	29183	26211	20603
20°	29116	21367	14830
25°	29041	16521	7305
30°	28913	12007	2369
35°	28845	5327	610
40°	28694	2164	411
45°	28565	607	437
50°	28343	431	485
55°	27934	512	207
60°	27245	571	126
65°	26124	364	149
70°	24270	323	184
75°	21231	243	254
80°	15875	298	363
85°	7864	385	480



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1689.8	8.7
10°-20°	4225.4	21.8
20°-30°	4576.8	23.6
30°-40°	3389.3	17.5
40°-50°	2441.2	12.6
50°-60°	1511.5	7.8
60°-70°	929.6	4.8
70°-80°	490.1	2.5
80°-90°	100.3	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°	10492.0	54.2
0°-40°	13881.3	71.7
0°-60°	17834.1	92.1
0°-90°	19354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18209	18209	18209	18209	18209	
5°	18043	18110	17883	17896	17876	###
15°	17459	17054	15681	13335	12326	4929
25°	16302	14932	9274	5834	4101	7511
35°	14634	10317	2703	636	309	9155
45°	12510	5812	266	192	191	9648
55°	9924	1197	182	165	74	8859
65°	6838	126	95	61	39	6747
75°	3403	30	39	51	41	3595
85°	424	11	21	31	26	641
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18209.1	18209.1	18209.1	18209.1	18209.1
2.5°	18092.2	18207.4	18071.4	18172.8	18253.3
5°	18042.8	18109.5	17883.4	17896.4	17875.6
7.5°	17956.2	17940.6	17560.3	17394.0	17321.3
10°	17825.4	17722.3	17112.5	16765.1	16512.2
12.5°	17656.5	17426.1	16553.8	15449.3	14763.3
15°	17459.0	17053.6	15680.6	13334.9	12325.7
17.5°	17223.3	16649.0	14253.0	11176.1	10275.3
20°	16945.3	16197.7	12435.6	9508.7	8631.2
22.5°	16635.1	15648.5	10670.3	7902.7	6650.9
25°	16301.7	14932.2	9273.9	5834.1	4100.7
27.5°	15916.2	14011.4	7964.2	3436.4	2092.8
30°	15508.2	12902.5	6440.4	1848.5	1270.8
32.5°	15096.8	11645.6	4557.3	1154.7	720.7
35°	14634.2	10316.8	2702.6	635.8	309.3
37.5°	14151.7	9098.9	1597.3	289.4	198.4
40°	13613.8	7985.9	1026.5	192.3	194.9
42.5°	13094.1	6948.1	577.8	189.7	193.2
45°	12510.1	5812.4	265.9	192.3	191.4
47.5°	11906.4	4635.2	172.3	194.0	194.0
50°	11283.6	3314.3	171.5	198.4	193.2
52.5°	10626.1	2067.7	178.5	197.5	158.5
55°	9923.6	1197.1	181.9	164.6	73.7
57.5°	9196.0	706.0	183.6	94.4	41.6
60°	8437.1	390.6	176.7	70.1	39.0
62.5°	7654.9	186.2	139.5	65.9	38.1
65°	6838.0	126.5	95.3	60.6	39.0
67.5°	5990.0	97.8	75.3	57.2	39.8
70°	5141.1	72.7	68.5	57.2	39.0
72.5°	4278.4	49.4	57.2	58.0	39.0
75°	3403.4	29.5	39.0	51.1	40.7
77.5°	2536.3	18.2	30.3	52.8	49.4
80°	1707.3	15.6	32.1	49.4	39.0
82.5°	1002.3	13.9	31.2	38.1	31.2
85°	424.5	11.3	20.8	31.2	25.9
87.5°	79.7	9.5	16.5	25.1	22.5
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)