

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: P730646

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-UNV-L735
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19048.0 lumens
Efficiency: N/A
Efficacy: 165.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

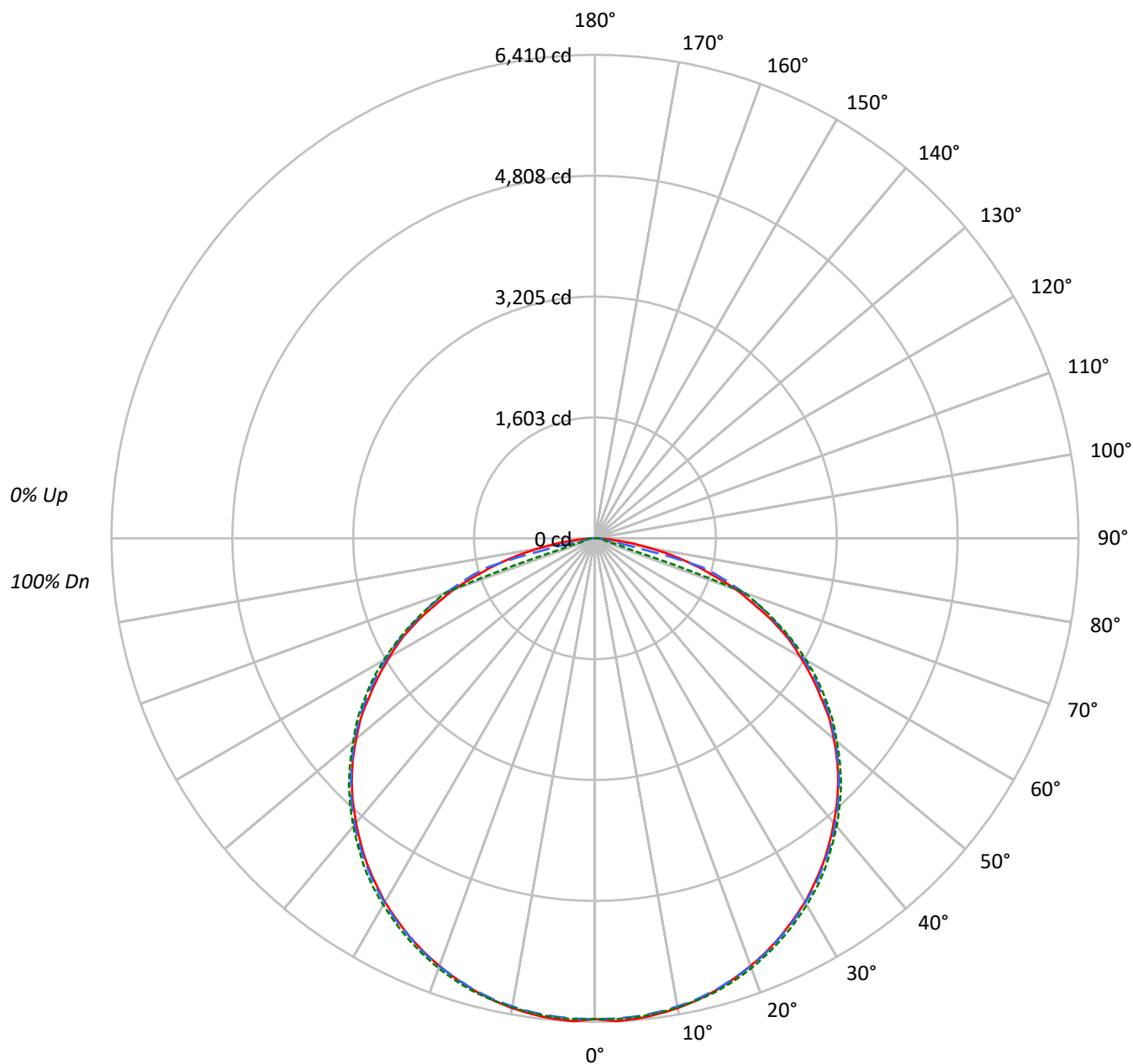
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10291	10291	10291
5°	10365	10312	10331
10°	10371	10334	10355
15°	10370	10355	10403
20°	10369	10371	10425
25°	10374	10379	10442
30°	10385	10398	10467
35°	10383	10417	10504
40°	10385	10451	10507
45°	10414	10453	10537
50°	10382	10443	10511
55°	10268	10412	10524
60°	10152	10317	10445
65°	9927	10133	10209
70°	9424	9827	9948
75°	8406	9115	1099
80°	6760	1135	1201
85°	4498	1473	1499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.4	3.2
10°-20°	1749.3	9.2
20°-30°	2687.7	14.1
30°-40°	3308.6	17.4
40°-50°	3527.3	18.5
50°-60°	3297.3	17.3
60°-70°	2610.2	13.7
70°-80°	1110.5	5.8
80°-90°	151.7	0.8
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°	5042.3	26.5
0°-40°	8350.9	43.8
0°-60°	15175.6	79.7
0°-90°	19048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6374	6374	6374	6374	6374	
5°	6395	6367	6363	6337	6374	608
15°	6204	6192	6195	6178	6224	1752
25°	5823	5816	5826	5823	5861	2685
35°	5268	5259	5285	5303	5329	3296
45°	4561	4535	4578	4596	4615	3514
55°	3648	3659	3699	3712	3739	3266
65°	2598	2621	2652	2672	2672	2556
75°	1348	1406	1461	238	176	1426
85°	243	72	80	82	81	317
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6374.0	6374.0	6374.0	6374.0	6374.0
2.5°	6409.5	6379.7	6374.0	6348.4	6382.5
5°	6395.3	6366.9	6362.6	6337.1	6374.0
7.5°	6365.5	6342.8	6339.9	6312.9	6349.9
10°	6325.7	6304.4	6303.0	6278.9	6315.8
12.5°	6271.8	6253.3	6259.0	6234.9	6271.8
15°	6203.6	6192.3	6195.1	6178.1	6223.5
17.5°	6121.3	6115.6	6121.3	6108.5	6149.7
20°	6034.6	6027.5	6036.1	6029.0	6067.3
22.5°	5933.8	5925.3	5942.4	5932.4	5967.9
25°	5823.1	5816.0	5825.9	5823.1	5861.4
27.5°	5696.7	5689.6	5710.9	5712.3	5742.1
30°	5570.3	5560.4	5577.4	5584.5	5614.4
32.5°	5419.8	5417.0	5442.5	5448.2	5479.5
35°	5267.9	5259.4	5284.9	5303.4	5328.9
37.5°	5101.8	5100.3	5127.3	5142.9	5155.7
40°	4927.1	4920.0	4958.3	4974.0	4985.3
42.5°	4749.6	4734.0	4770.9	4790.8	4803.6
45°	4560.8	4535.2	4577.8	4596.3	4614.7
47.5°	4353.5	4330.7	4371.9	4391.8	4404.6
50°	4133.4	4112.1	4157.5	4174.6	4184.5
52.5°	3911.9	3890.6	3938.8	3953.0	3977.2
55°	3647.8	3659.1	3698.9	3711.7	3738.6
57.5°	3403.5	3413.5	3451.8	3467.4	3498.7
60°	3143.7	3159.3	3194.8	3210.4	3234.6
62.5°	2892.4	2893.8	2936.4	2943.5	2961.9
65°	2598.4	2621.2	2652.4	2672.3	2672.3
67.5°	2270.4	2325.8	2379.8	2375.5	2386.9
70°	1996.4	2017.7	2081.6	2091.5	2107.2
72.5°	1652.8	1708.2	1779.2	1329.0	451.5
75°	1347.5	1405.7	1461.1	238.5	176.1
77.5°	1046.5	1091.9	485.6	136.3	133.5
80°	727.0	799.4	122.1	125.0	129.2
82.5°	478.5	390.5	100.8	110.8	112.2
85°	242.8	72.4	79.5	82.4	80.9
87.5°	79.5	44.0	45.4	46.9	48.3
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)