

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: P730582

Luminaire Tested: **HBLED-LD5-18HE-W-WG-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-WG-UNV-L750
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19364.0 lumens
Efficiency: N/A
Efficacy: 175.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

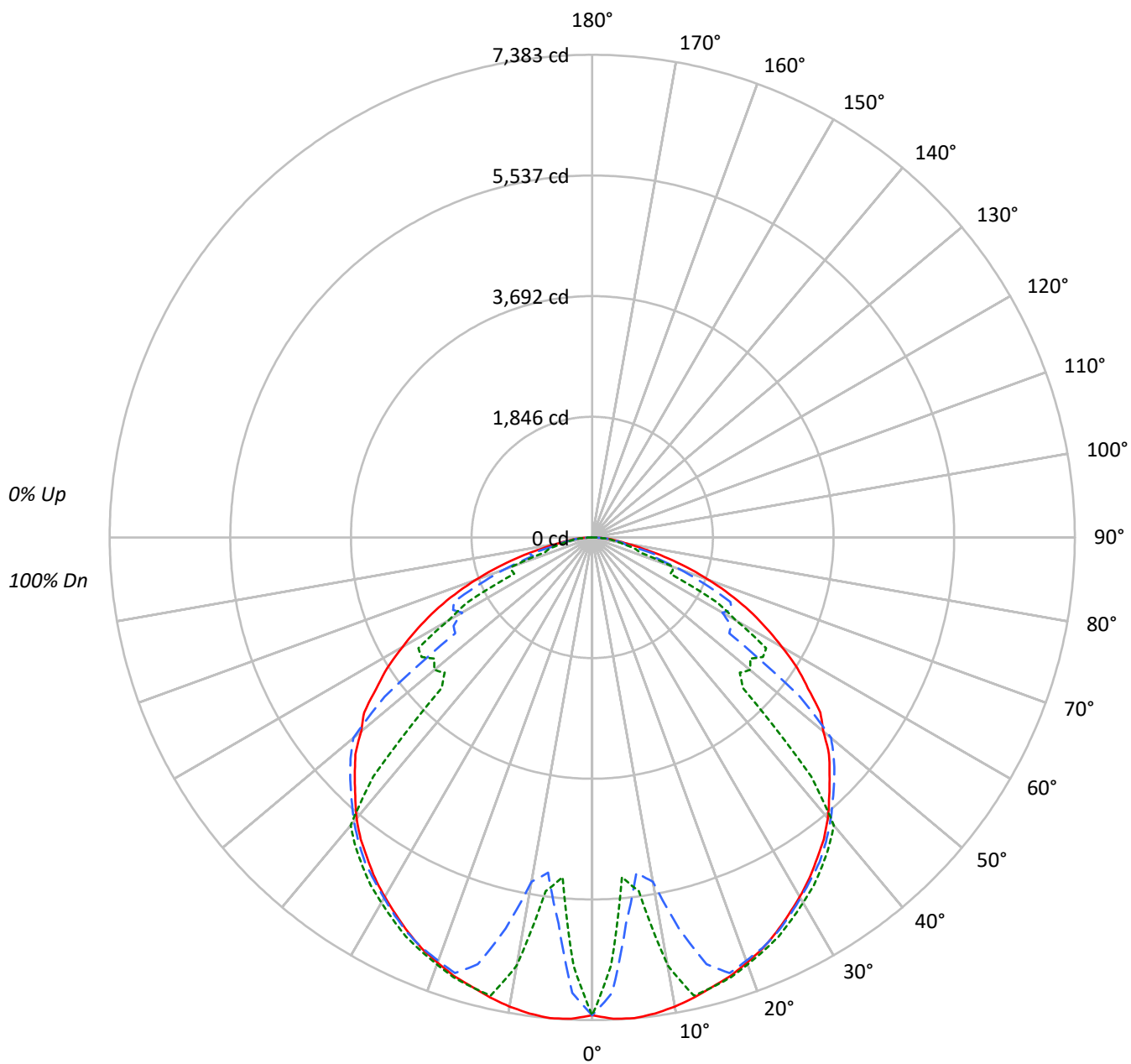
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31		
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11802	11802	11802
5°	11966	9613	8454
10°	11945	8767	10903
15°	11892	11299	11902
20°	11892	11838	11943
25°	11871	11897	12006
30°	11836	11876	12029
35°	11818	11949	12088
40°	11819	11948	12119
45°	11726	11956	7430
50°	11594	11980	7919
55°	11349	7203	8975
60°	10826	7425	8219
65°	10144	8915	5028
70°	8958	6754	6164
75°	7137	6140	4274
80°	4917	4437	3674
85°	4711	4096	3887



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.5	3.0
10°-20°	1831.1	9.5
20°-30°	3012.6	15.6
30°-40°	3787.9	19.6
40°-50°	3715.0	19.2
50°-60°	3078.1	15.9
60°-70°	2171.0	11.2
70°-80°	947.2	4.9
80°-90°	236.6	1.2
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°	5428.2	28.0
0°-40°	9216.1	47.6
0°-60°	16009.2	82.7
0°-90°	19364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19364.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7309	7309	7309	7309	7309	
5°	7383	6871	5931	5378	5216	701
15°	7114	4941	6760	7142	7120	2012
25°	6663	6097	6678	6723	6740	3071
35°	5996	5992	6062	6102	6133	3756
45°	5136	5151	5236	4638	3254	3964
55°	4032	4164	2559	2910	3188	3607
65°	2655	2812	2334	1795	1316	2611
75°	1144	1121	984	643	685	1227
85°	254	226	221	212	210	264
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7309.3	7309.3	7309.3	7309.3	7309.3
2.5°	7369.6	7216.6	6973.7	6667.7	6559.4
5°	7382.7	6871.4	5931.0	5377.7	5216.0
7.5°	7345.1	6244.7	5170.6	5286.8	5458.1
10°	7285.7	5694.1	5347.2	6291.1	6650.3
12.5°	7209.7	5204.7	6125.8	7106.5	7178.1
15°	7114.4	4940.8	6759.6	7142.4	7120.5
17.5°	7034.0	5095.4	6986.8	7070.7	7054.9
20°	6921.2	5404.0	6889.8	6957.1	6950.9
22.5°	6807.6	5769.3	6798.0	6846.1	6846.1
25°	6663.4	6097.1	6678.2	6722.8	6739.5
27.5°	6505.2	6285.8	6528.8	6565.5	6595.2
30°	6348.7	6312.9	6369.8	6416.9	6451.9
32.5°	6183.6	6169.6	6214.2	6264.0	6308.5
35°	5995.6	5992.1	6062.1	6102.2	6132.9
37.5°	5819.1	5806.9	5871.5	5927.5	5951.1
40°	5607.6	5607.6	5668.8	5725.6	5750.1
42.5°	5366.3	5400.5	5447.7	5506.2	4959.1
45°	5135.6	5151.4	5236.1	4637.5	3253.9
47.5°	4913.6	4933.7	5014.2	2981.2	3062.5
50°	4615.6	4706.5	4769.4	2972.5	3152.6
52.5°	4398.0	4437.3	4003.8	2942.8	3044.1
55°	4031.8	4163.7	2559.0	2909.6	3188.3
57.5°	3718.9	3815.1	2516.3	2981.2	3154.3
60°	3352.7	3499.5	2299.5	2876.4	2545.1
62.5°	3001.3	3141.1	2400.9	2263.7	2155.3
65°	2655.2	2811.6	2333.6	1795.2	1316.2
67.5°	2275.9	2130.0	1861.6	1264.7	1331.1
70°	1897.5	1487.6	1430.8	1414.2	1305.8
72.5°	1508.5	1085.5	950.0	1061.1	759.5
75°	1144.1	1121.4	984.2	643.3	685.2
77.5°	793.6	809.3	527.0	627.5	520.9
80°	528.8	458.0	477.2	400.3	395.1
82.5°	366.2	374.0	313.7	304.1	308.6
85°	254.3	226.4	221.1	211.6	209.8
87.5°	84.7	98.8	91.8	83.0	88.3
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)