

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: P730541

Luminaire Tested: **HBLED-LD5-18HE-W-A-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23761)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-A-UNV-L835
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16284.0 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

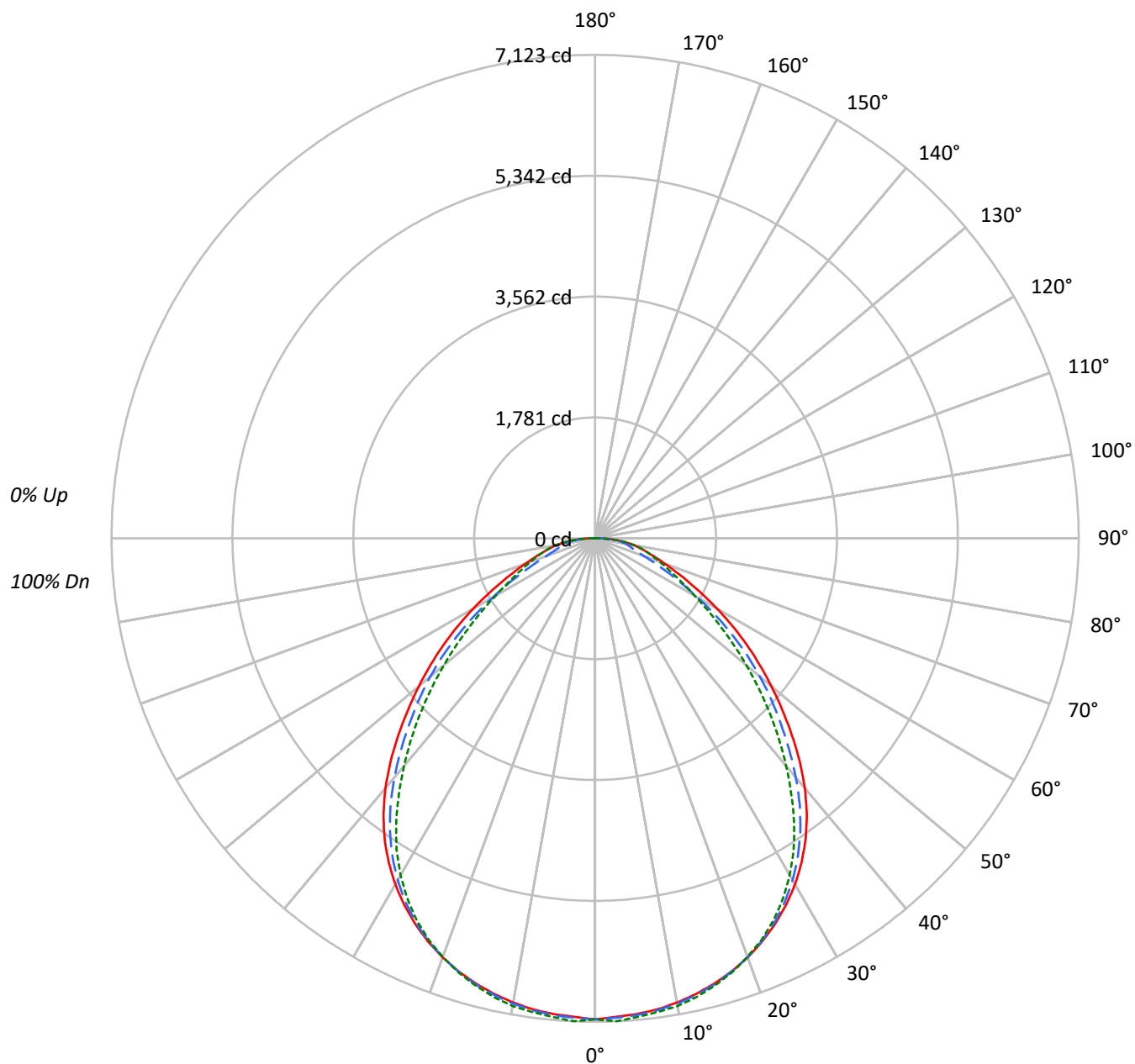
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63		
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55		
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49		
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43		
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35		
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11445	11445	11445
5°	11405	11431	11477
10°	11389	11415	11473
15°	11351	11373	11400
20°	11291	11283	11275
25°	11169	11130	11068
30°	10976	10843	10685
35°	10657	10389	10069
40°	10127	9692	9227
45°	9355	8833	8298
50°	8504	7954	7299
55°	7647	6886	6310
60°	6691	5628	5476
65°	5770	4426	4942
70°	5144	3612	4763
75°	4928	3526	4977
80°	5330	4170	5545
85°	5984	5020	6043



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	671.8	4.1
10°-20°	1922.7	11.8
20°-30°	2876.2	17.7
30°-40°	3281.5	20.2
40°-50°	2987.1	18.3
50°-60°	2193.4	13.5
60°-70°	1295.1	8.0
70°-80°	742.2	4.6
80°-90°	313.8	1.9
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°	5470.8	33.6
0°-40°	8752.3	53.7
0°-60°	13932.9	85.6
0°-90°	16284.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16284.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7089	7089	7089	7089	7089	
5°	7037	7081	7053	7081	7082	669
15°	6790	6828	6804	6828	6820	1916
25°	6269	6292	6248	6245	6212	2886
35°	5407	5380	5271	5180	5108	3369
45°	4097	4073	3868	3695	3634	3158
55°	2716	2591	2446	2269	2242	2429
65°	1510	1318	1158	1239	1294	1520
75°	790	677	565	737	798	851
85°	323	298	271	320	326	338
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7088.7	7088.7	7088.7	7088.7	7088.7
2.5°	7055.9	7096.7	7071.1	7099.1	7123.1
5°	7036.8	7080.7	7052.7	7080.7	7081.5
7.5°	7001.6	7042.3	7015.2	7045.6	7042.3
10°	6946.4	6987.2	6962.4	6995.2	6997.6
12.5°	6876.0	6915.2	6889.7	6927.2	6920.8
15°	6790.5	6828.1	6804.1	6828.1	6820.1
17.5°	6689.8	6724.2	6693.0	6719.4	6705.8
20°	6571.4	6600.2	6566.7	6591.4	6561.9
22.5°	6430.0	6455.5	6420.4	6433.9	6403.5
25°	6269.3	6291.6	6247.7	6245.3	6212.5
27.5°	6090.2	6102.2	6046.2	6027.0	5989.4
30°	5887.2	5890.3	5816.0	5780.0	5731.2
32.5°	5659.3	5651.3	5556.1	5502.6	5442.6
35°	5406.7	5380.3	5270.8	5180.4	5108.5
37.5°	5121.3	5079.7	4948.6	4815.1	4746.3
40°	4804.7	4755.9	4598.4	4432.9	4377.8
42.5°	4460.1	4418.6	4233.1	4060.4	4006.0
45°	4097.2	4073.2	3868.5	3695.0	3634.3
47.5°	3734.2	3716.6	3516.8	3340.1	3266.5
50°	3385.7	3347.3	3166.6	2973.1	2906.0
52.5°	3047.5	2969.1	2810.1	2611.8	2562.3
55°	2716.5	2591.0	2446.3	2268.9	2241.6
57.5°	2388.7	2226.4	2085.8	1953.0	1952.3
60°	2072.2	1886.7	1742.8	1673.2	1695.7
62.5°	1775.6	1585.3	1429.4	1434.2	1475.0
65°	1510.2	1318.3	1158.4	1239.1	1293.5
67.5°	1282.3	1099.2	936.9	1087.3	1139.2
70°	1089.7	924.1	765.1	952.9	1008.9
72.5°	927.4	788.2	645.2	841.0	897.8
75°	789.9	677.1	565.2	737.1	797.8
77.5°	678.0	578.0	506.9	637.9	701.1
80°	573.2	485.3	448.5	542.1	596.4
82.5°	454.1	393.4	371.8	440.5	468.5
85°	323.0	298.2	271.0	319.8	326.2
87.5°	177.5	183.9	151.9	183.9	184.6
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)