

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: P730546

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-AI-UNV-L750
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18034.0 lumens
Efficiency: N/A
Efficacy: 163.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

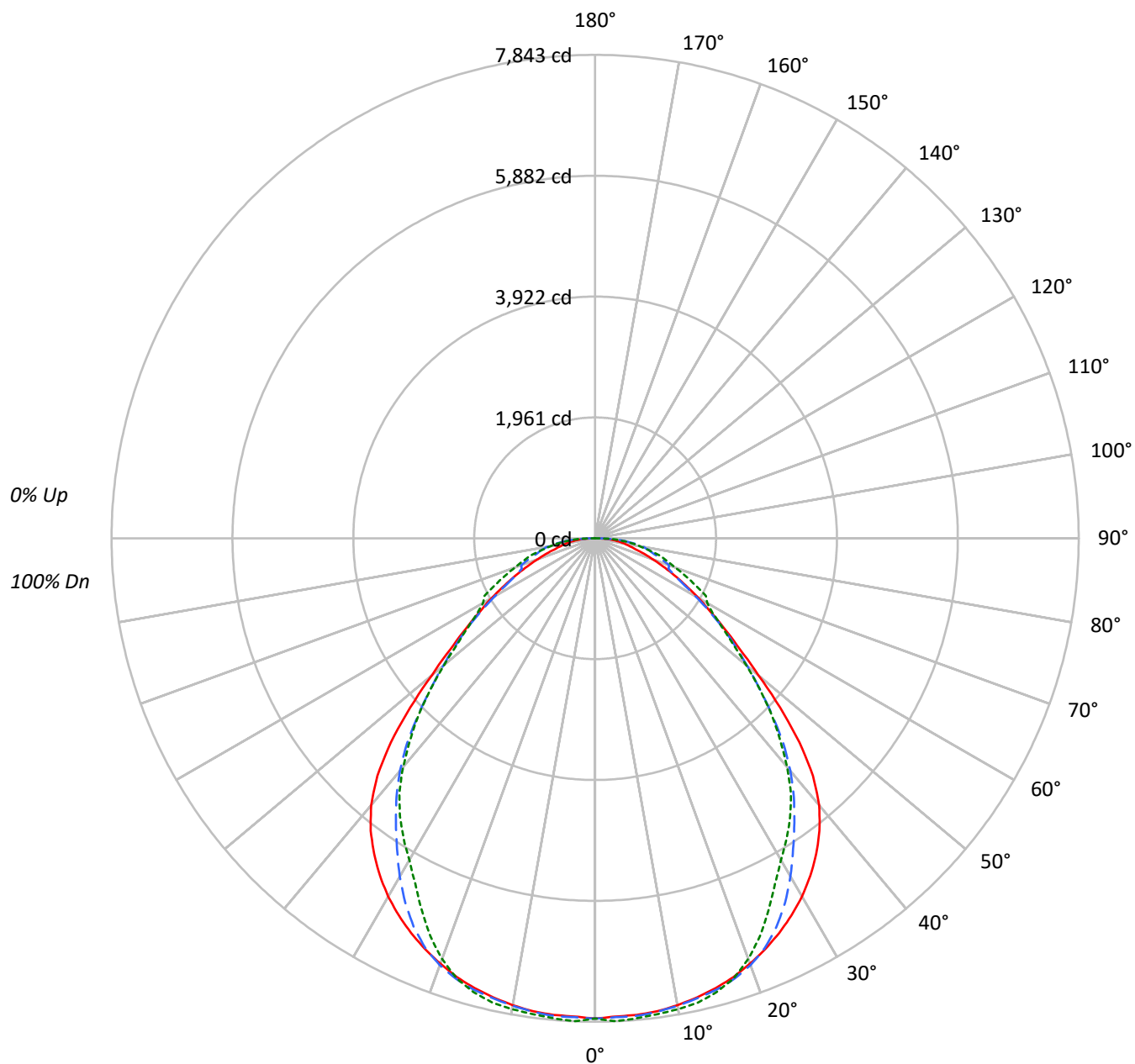
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12580	12580	12580
5°	12579	12606	12668
10°	12610	12626	12719
15°	12630	12677	12739
20°	12617	12664	12476
25°	12585	12396	11857
30°	12511	11812	11236
35°	12322	11102	10870
40°	11910	10380	10209
45°	10705	9269	9235
50°	8683	8073	8018
55°	7210	7076	7073
60°	6242	6060	6775
65°	5410	5376	6829
70°	4665	6031	6509
75°	4183	6181	6786
80°	4348	7276	6808
85°	4935	8385	7781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.8	4.1
10°-20°	2142.5	11.9
20°-30°	3182.0	17.6
30°-40°	3612.5	20.0
40°-50°	3229.4	17.9
50°-60°	2232.8	12.4
60°-70°	1473.3	8.2
70°-80°	994.0	5.5
80°-90°	425.7	2.4
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°	6066.3	33.6
0°-40°	9678.8	53.7
0°-60°	15141.0	84.0
0°-90°	18034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7791	7791	7791	7791	7791	
5°	7761	7809	7778	7810	7816	739
15°	7556	7592	7584	7626	7621	2133
25°	7064	7131	6958	6751	6656	3255
35°	6252	6120	5632	5550	5515	3898
45°	4688	4291	4059	4090	4044	3565
55°	2561	2338	2514	2478	2513	2326
65°	1416	1257	1407	1645	1788	1413
75°	670	844	991	1059	1088	732
85°	266	371	453	455	420	278
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7791.3	7791.3	7791.3	7791.3	7791.3
2.5°	7764.8	7813.3	7777.1	7810.7	7843.3
5°	7761.2	7808.9	7778.0	7809.7	7815.9
7.5°	7739.2	7783.3	7747.1	7778.0	7785.1
10°	7691.5	7743.6	7701.2	7748.9	7757.7
12.5°	7629.8	7682.7	7645.6	7710.9	7714.5
15°	7555.7	7591.8	7583.9	7626.2	7621.0
17.5°	7462.1	7503.7	7497.5	7508.0	7483.3
20°	7343.1	7389.8	7370.4	7321.9	7261.0
22.5°	7215.1	7271.6	7194.9	7072.2	6986.6
25°	7064.2	7131.3	6958.4	6751.1	6655.8
27.5°	6897.5	6957.5	6669.9	6415.8	6317.0
30°	6710.5	6736.0	6335.5	6093.7	6026.7
32.5°	6494.3	6457.3	5978.2	5818.5	5779.7
35°	6251.7	6120.2	5632.3	5550.3	5515.0
37.5°	5978.2	5737.4	5291.0	5253.0	5215.9
40°	5650.9	5295.3	4924.8	4900.1	4843.6
42.5°	5228.3	4814.5	4518.0	4488.9	4438.6
45°	4688.3	4291.3	4059.3	4090.2	4044.3
47.5°	4067.2	3766.4	3619.1	3703.7	3619.1
50°	3456.7	3254.7	3214.1	3290.9	3192.0
52.5°	2956.4	2774.7	2858.6	2871.8	2812.7
55°	2561.2	2338.0	2513.6	2478.3	2512.7
57.5°	2217.1	1967.4	2183.6	2143.0	2261.2
60°	1933.0	1652.5	1876.6	1867.7	2098.0
62.5°	1654.3	1430.2	1610.1	1739.8	2023.0
65°	1416.0	1257.2	1407.2	1645.4	1787.5
67.5°	1187.5	1127.5	1287.2	1419.5	1574.9
70°	988.1	1019.0	1277.5	1252.8	1378.9
72.5°	820.5	925.5	1127.5	1131.9	1221.0
75°	670.5	843.5	990.8	1058.7	1087.8
77.5°	557.6	764.9	894.6	918.5	890.2
80°	467.6	674.0	782.5	772.0	732.2
82.5°	377.6	510.9	616.7	626.4	579.6
85°	266.4	370.6	452.6	455.3	420.0
87.5°	142.9	228.5	274.4	282.3	261.1
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)