

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: P730563

Luminaire Tested: **HBLED-LD5-18HE-W-CLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-CLI-UNV-L740
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18549.0 lumens
Efficiency: N/A
Efficacy: 168.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

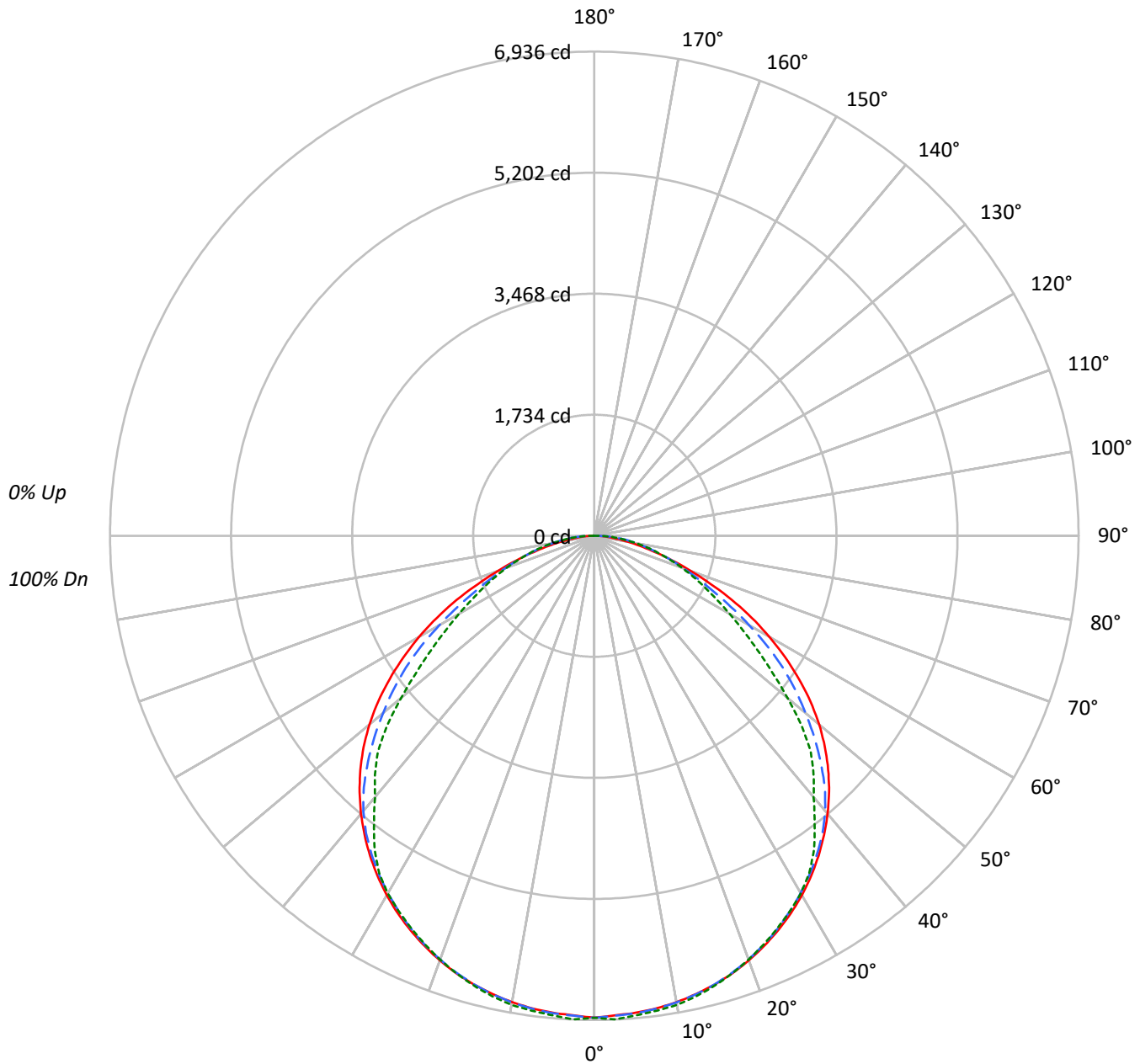
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11147	11147	11147
5°	11117	11125	11175
10°	11123	11129	11187
15°	11125	11123	11150
20°	11122	11097	11099
25°	11105	11064	11050
30°	11087	11020	11027
35°	11035	10967	10811
40°	10957	10845	10298
45°	10817	10471	10013
50°	10557	9914	9069
55°	10077	9272	8019
60°	9351	8272	7231
65°	8312	7163	6650
70°	6898	6401	6268
75°	5579	5858	5931
80°	4431	5603	5580
85°	3470	6019	5741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.7	3.5
10°-20°	1883.3	10.2
20°-30°	2871.7	15.5
30°-40°	3474.4	18.7
40°-50°	3519.2	19.0
50°-60°	2908.7	15.7
60°-70°	1921.1	10.4
70°-80°	1001.8	5.4
80°-90°	314.0	1.7
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°	5409.8	29.2
0°-40°	8884.1	47.9
0°-60°	15312.0	82.5
0°-90°	18549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6904	6904	6904	6904	6904	
5°	6859	6901	6864	6894	6895	652
15°	6655	6689	6655	6675	6670	1879
25°	6234	6258	6210	6226	6203	2874
35°	5599	5606	5564	5556	5485	3502
45°	4738	4725	4586	4443	4385	3648
55°	3580	3527	3294	2974	2849	3191
65°	2176	2113	1875	1753	1741	2149
75°	894	910	939	951	951	974
85°	187	241	325	322	310	227
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6904.0	6904.0	6904.0	6904.0	6904.0
2.5°	6875.1	6915.6	6881.6	6911.5	6935.5
5°	6859.3	6900.8	6864.3	6894.1	6894.9
7.5°	6828.7	6870.1	6832.7	6862.6	6861.8
10°	6784.7	6823.7	6788.0	6823.7	6823.7
12.5°	6725.0	6763.1	6728.4	6761.5	6756.5
15°	6655.4	6689.4	6654.6	6675.3	6670.3
17.5°	6573.4	6604.0	6565.0	6582.4	6572.5
20°	6473.1	6501.3	6458.2	6480.5	6459.8
22.5°	6360.3	6386.8	6342.9	6359.5	6336.3
25°	6233.6	6258.4	6210.4	6226.1	6202.9
27.5°	6096.8	6119.1	6065.2	6084.4	6066.1
30°	5946.7	5957.6	5911.1	5936.0	5914.5
32.5°	5779.3	5786.0	5745.3	5767.7	5731.3
35°	5598.6	5606.1	5563.9	5556.4	5485.1
37.5°	5405.5	5408.9	5369.1	5301.9	5184.2
40°	5198.4	5196.7	5145.3	4990.3	4885.9
42.5°	4977.0	4976.3	4885.9	4709.3	4649.7
45°	4737.5	4725.1	4585.8	4443.3	4385.2
47.5°	4480.6	4467.3	4272.5	4159.0	4027.2
50°	4202.9	4179.7	3946.8	3791.8	3610.3
52.5°	3903.7	3868.1	3631.0	3380.7	3209.2
55°	3579.7	3526.6	3293.7	2973.8	2848.7
57.5°	3242.4	3163.6	2937.3	2625.7	2523.8
60°	2895.9	2808.0	2561.8	2305.8	2239.4
62.5°	2539.5	2452.5	2201.3	2008.2	1971.7
65°	2175.7	2112.6	1874.8	1752.9	1740.6
67.5°	1802.7	1780.3	1598.8	1536.6	1531.7
70°	1461.2	1457.1	1355.9	1324.4	1327.7
72.5°	1167.8	1162.8	1148.0	1132.2	1133.0
75°	894.3	910.0	939.1	951.4	950.7
77.5°	667.2	699.5	760.8	785.7	781.5
80°	476.6	524.7	602.6	625.8	600.1
82.5°	317.4	368.0	460.0	463.3	442.6
85°	187.3	241.2	324.9	322.4	309.9
87.5°	92.8	145.0	194.8	186.4	178.2
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)