

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: P730547

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730547
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-L835
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: 16339.0 lumens
Efficiency: N/A
Efficacy: 148.3 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

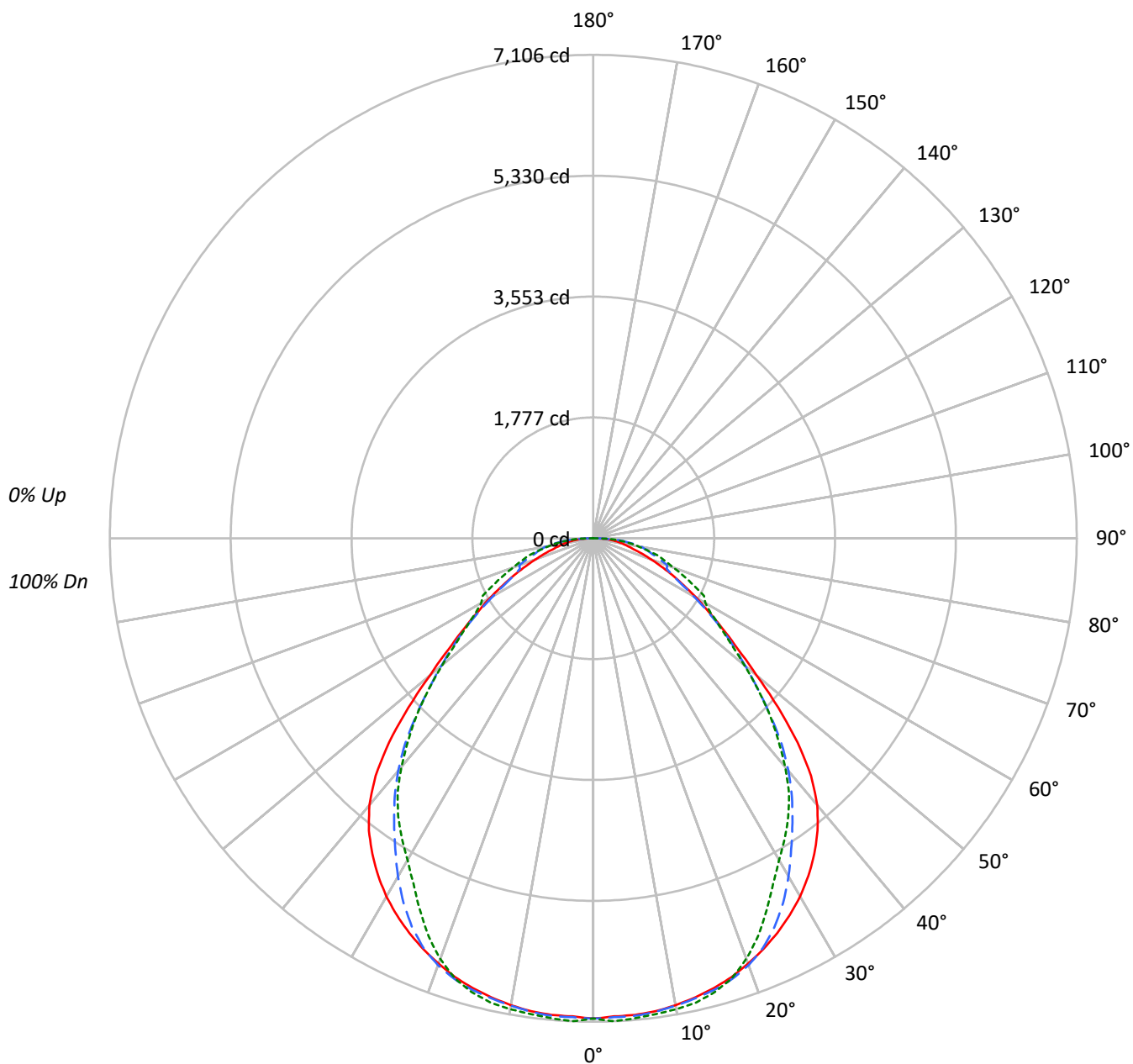
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11397	11397	11397
5°	11397	11421	11477
10°	11425	11439	11523
15°	11443	11485	11542
20°	11431	11474	11303
25°	11402	11231	10743
30°	11335	10701	10180
35°	11164	10058	9849
40°	10791	9404	9249
45°	9699	8398	8367
50°	7867	7315	7264
55°	6532	6410	6408
60°	5655	5490	6138
65°	4902	4871	6187
70°	4226	5464	5898
75°	3790	5600	6148
80°	3940	6592	6168
85°	4472	7597	7049



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.1	4.1
10°-20°	1941.1	11.9
20°-30°	2882.9	17.6
30°-40°	3272.9	20.0
40°-50°	2925.9	17.9
50°-60°	2022.9	12.4
60°-70°	1334.9	8.2
70°-80°	900.5	5.5
80°-90°	385.7	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°	5496.1	33.6
0°-40°	8769.1	53.7
0°-60°	13717.9	84.0
0°-90°	16339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16339.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7059	7059	7059	7059	7059	
5°	7032	7075	7047	7076	7081	669
15°	6846	6878	6871	6909	6905	1932
25°	6400	6461	6304	6117	6030	2949
35°	5664	5545	5103	5029	4997	3532
45°	4248	3888	3678	3706	3664	3230
55°	2320	2118	2277	2245	2276	2108
65°	1283	1139	1275	1491	1620	1280
75°	608	764	898	959	986	663
85°	241	336	410	412	380	252
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7059.0	7059.0	7059.0	7059.0	7059.0
2.5°	7035.0	7078.9	7046.2	7076.6	7106.1
5°	7031.8	7074.9	7046.9	7075.7	7081.3
7.5°	7011.8	7051.7	7018.9	7046.9	7053.3
10°	6968.6	7015.8	6977.4	7020.6	7028.6
12.5°	6912.7	6960.7	6927.0	6986.2	6989.4
15°	6845.5	6878.3	6871.1	6909.4	6904.7
17.5°	6760.8	6798.4	6792.8	6802.3	6780.0
20°	6652.9	6695.2	6677.6	6633.7	6578.5
22.5°	6537.0	6588.1	6518.6	6407.5	6329.9
25°	6400.3	6461.0	6304.4	6116.6	6030.2
27.5°	6249.2	6303.6	6043.0	5812.8	5723.3
30°	6079.8	6102.9	5740.0	5521.0	5460.2
32.5°	5883.9	5850.4	5416.3	5271.6	5236.5
35°	5664.1	5545.0	5103.0	5028.6	4996.6
37.5°	5416.3	5198.1	4793.7	4759.3	4725.6
40°	5119.8	4797.6	4461.9	4439.6	4388.3
42.5°	4736.9	4362.0	4093.4	4067.0	4021.4
45°	4247.7	3888.0	3677.7	3705.7	3664.2
47.5°	3684.9	3412.4	3278.9	3355.6	3278.9
50°	3131.8	2948.8	2912.0	2981.5	2892.0
52.5°	2678.6	2513.9	2589.9	2601.8	2548.3
55°	2320.4	2118.3	2277.3	2245.3	2276.5
57.5°	2008.8	1782.5	1978.4	1941.6	2048.7
60°	1751.3	1497.2	1700.2	1692.2	1900.8
62.5°	1498.8	1295.8	1458.8	1576.3	1832.9
65°	1283.0	1139.1	1274.9	1490.8	1619.5
67.5°	1075.9	1021.5	1166.2	1286.1	1426.8
70°	895.2	923.2	1157.4	1135.0	1249.3
72.5°	743.4	838.5	1021.5	1025.5	1106.3
75°	607.5	764.2	897.7	959.2	985.6
77.5°	505.2	693.0	810.5	832.1	806.5
80°	423.7	610.7	709.0	699.4	663.4
82.5°	342.1	462.8	558.8	567.6	525.1
85°	241.4	335.8	410.1	412.5	380.5
87.5°	129.5	207.1	248.6	255.8	236.6
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)