

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: P730529

Luminaire Tested: **HBLED-LD5-18HE-N-CLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-N-CLI-UNV-L835
Description: 18000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16506.0 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

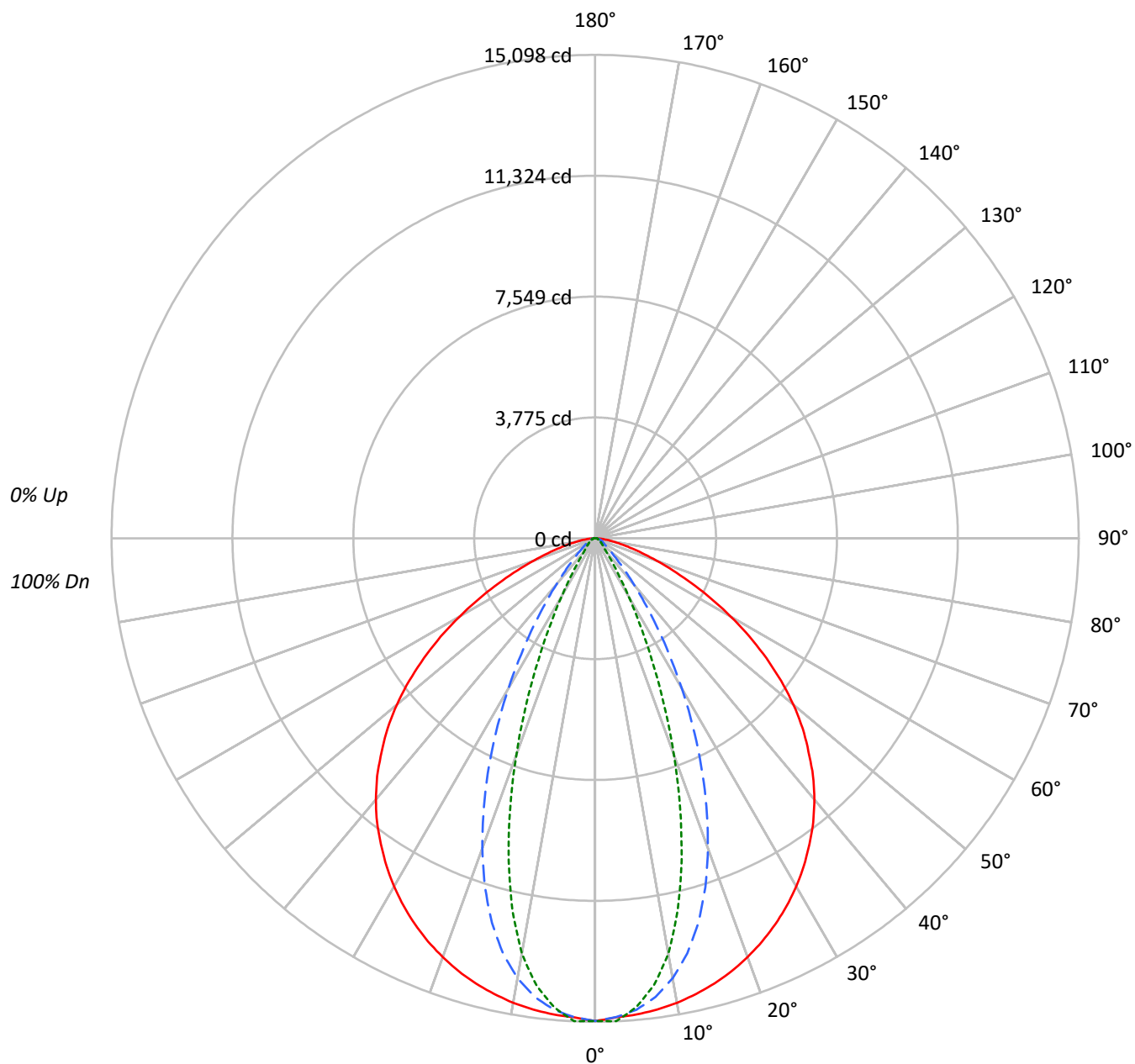
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24343	24343	24343
5°	24197	23956	23830
10°	24156	22871	21582
15°	24059	20790	17430
20°	23915	17690	12354
25°	23701	13949	7464
30°	23413	10067	3836
35°	22990	6582	1916
40°	22445	3953	1118
45°	21513	2361	836
50°	20290	1544	702
55°	18364	1171	613
60°	15781	997	559
65°	12694	910	528
70°	9563	975	525
75°	7034	926	540
80°	5146	922	591
85°	3855	1119	765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1388.5	8.4
10°-20°	3454.3	20.9
20°-30°	3826.2	23.2
30°-40°	3065.4	18.6
40°-50°	2188.3	13.3
50°-60°	1405.6	8.5
60°-70°	761.7	4.6
70°-80°	325.6	2.0
80°-90°	90.3	0.5
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°	8669.0	52.5
0°-40°	11734.5	71.1
0°-60°	15328.4	92.9
0°-90°	16506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16506.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15077	15077	15077	15077	15077	
5°	14929	14985	14781	14734	14703	###
15°	14393	13943	12437	10991	10428	4061
25°	13304	11731	7830	5101	4190	6129
35°	11664	8437	3339	1347	972	7293
45°	9421	4870	1034	440	366	7262
55°	6524	2177	416	256	218	5814
65°	3323	894	238	164	138	3327
75°	1128	327	148	103	86	1253
85°	208	86	60	50	41	254
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15077.0	15077.0	15077.0	15077.0	15077.0
2.5°	14977.8	15071.5	14970.6	15033.3	15097.6
5°	14929.3	14985.0	14780.8	14733.9	14703.0
7.5°	14845.1	14829.2	14445.8	14197.2	14077.2
10°	14733.9	14605.3	13950.2	13403.9	13164.0
12.5°	14575.1	14309.9	13279.1	12319.9	11913.3
15°	14393.3	13943.1	12437.4	10991.4	10427.5
17.5°	14175.7	13514.2	11431.2	9566.7	8822.6
20°	13918.4	12996.5	10295.7	8053.1	7189.9
22.5°	13631.0	12399.3	9079.9	6544.3	5618.4
25°	13303.8	11730.6	7830.0	5101.4	4189.7
27.5°	12950.4	10988.2	6587.2	3811.7	2980.3
30°	12558.1	10184.5	5399.9	2748.5	2057.6
32.5°	12130.1	9330.1	4297.0	1932.9	1407.2
35°	11664.0	8436.7	3339.2	1346.8	972.0
37.5°	11186.7	7525.0	2522.1	952.1	697.2
40°	10649.0	6616.5	1875.7	697.2	530.4
42.5°	10071.7	5725.6	1388.1	536.8	429.6
45°	9421.4	4870.3	1034.0	440.0	366.1
47.5°	8790.9	4073.0	785.4	374.8	318.4
50°	8077.7	3353.6	614.6	327.2	279.5
52.5°	7320.9	2720.6	498.7	288.3	246.2
55°	6523.6	2177.4	416.1	255.7	217.6
57.5°	5716.0	1724.8	355.8	227.9	193.8
60°	4887.0	1379.4	308.9	204.1	173.1
62.5°	4077.8	1103.0	270.0	183.4	154.9
65°	3322.6	894.1	238.2	164.4	138.2
67.5°	2624.5	706.8	222.4	147.7	124.7
70°	2025.7	550.3	206.5	131.8	111.2
72.5°	1535.0	422.5	182.7	117.5	98.5
75°	1127.6	327.2	148.5	103.2	86.5
77.5°	806.8	251.8	120.7	89.7	74.7
80°	553.5	187.4	99.2	77.0	63.6
82.5°	359.8	132.6	80.2	63.6	52.4
85°	208.1	86.5	60.4	50.0	41.3
87.5°	89.7	47.6	41.3	37.3	31.7
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)