

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: P730595

Luminaire Tested: **HBLED-LD5-18SE-N-CL-WG-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33344)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-N-CL-WG-UNV-L835
Description: 18000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS, WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16151.0 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

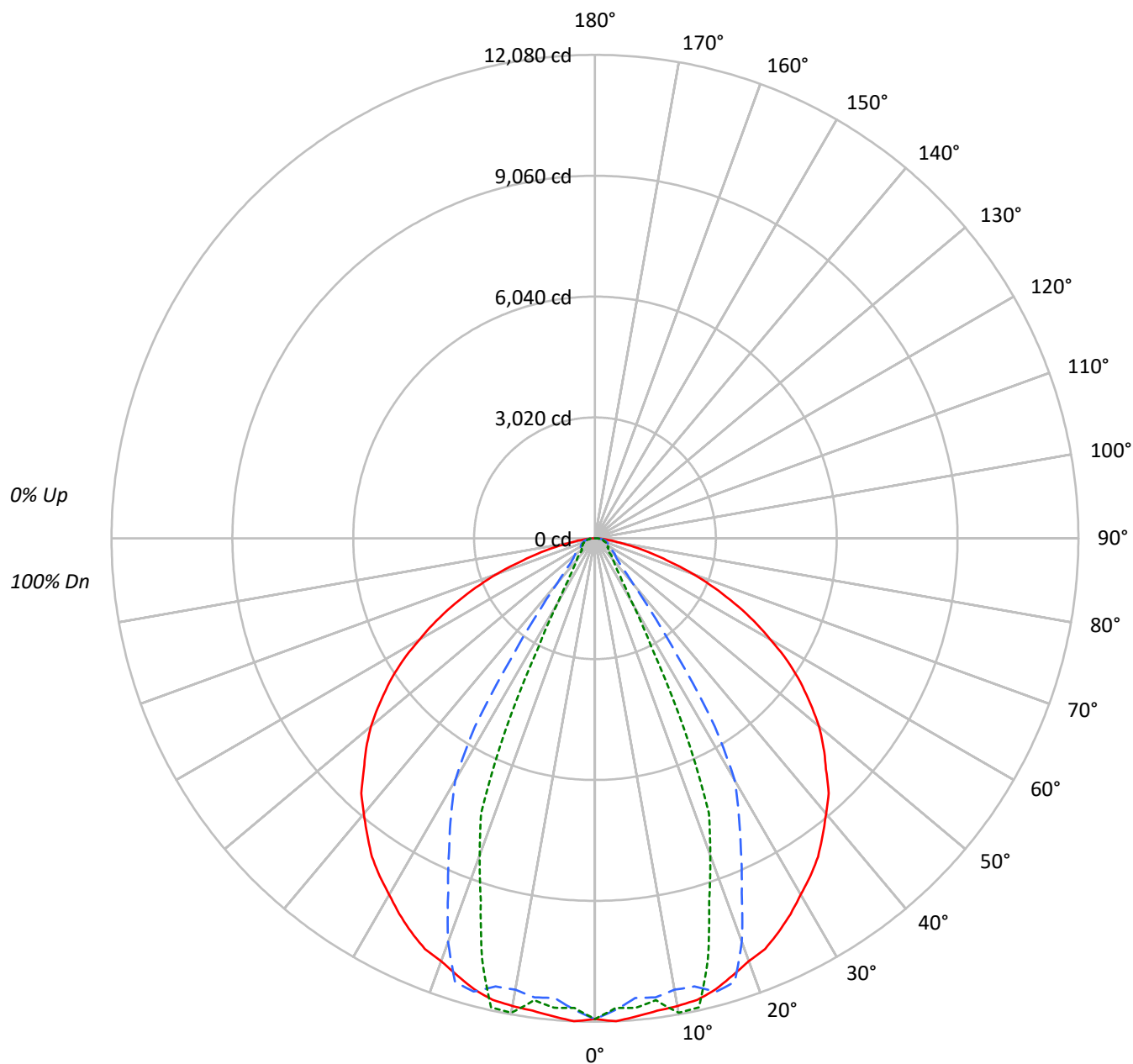
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89		
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79		
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64		
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58		
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41		
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19397	19397	19397
5°	19430	18689	19083
10°	19458	18779	19743
15°	19501	19603	18219
20°	19317	18437	14461
25°	19344	15371	9447
30°	19171	13021	3394
35°	19151	7054	1909
40°	18934	3075	1495
45°	18641	1901	1172
50°	18351	1656	1106
55°	17629	1436	1083
60°	16357	1287	1163
65°	14703	1454	1271
70°	12331	1564	1311
75°	9218	1783	1419
80°	5790	2071	1618
85°	3855	2595	2369



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1113.5	6.9
10°-20°	3144.3	19.5
20°-30°	3850.3	23.8
30°-40°	3023.7	18.7
40°-50°	2242.3	13.9
50°-60°	1365.0	8.5
60°-70°	817.7	5.1
70°-80°	448.6	2.8
80°-90°	145.5	0.9
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°	8108.2	50.2
0°-40°	11131.9	68.9
0°-60°	14739.2	91.3
0°-90°	16151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12014	12014	12014	12014	12014	
5°	11988	11662	11531	11658	11774	###
15°	11667	11347	11727	11254	10900	3285
25°	10858	10892	8628	6767	5303	4999
35°	9716	8838	3579	1198	968	6063
45°	8164	5862	832	631	513	6313
55°	6263	1615	510	432	385	5573
65°	3848	476	381	358	333	3802
75°	1478	300	286	248	228	1600
85°	208	164	140	129	128	254
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12013.9	12013.9	12013.9	12013.9	12013.9
2.5°	12079.5	11916.7	11792.1	11722.4	11750.7
5°	11988.0	11661.7	11531.3	11658.5	11774.3
7.5°	11908.6	11423.7	11571.0	11582.4	11643.1
10°	11868.2	11401.0	11454.4	11706.2	12042.2
12.5°	11814.8	11453.6	11472.2	11815.5	12005.0
15°	11666.6	11346.7	11727.3	11253.7	10899.8
17.5°	11450.4	11097.4	11620.4	9969.5	9488.6
20°	11242.3	10826.1	10730.6	8880.5	8416.5
22.5°	11107.9	10784.9	9585.7	7912.9	7433.6
25°	10858.5	10892.5	8627.9	6767.2	5302.6
27.5°	10584.0	10639.1	7781.0	4513.1	3037.9
30°	10282.8	10346.0	6984.2	2667.0	1820.2
32.5°	10010.0	9653.7	5577.8	1663.9	1265.5
35°	9716.1	8838.4	3578.7	1197.5	968.4
37.5°	9346.1	7981.7	2265.4	947.3	812.9
40°	8983.3	7212.6	1459.0	808.8	709.3
42.5°	8644.1	6578.6	1061.5	706.9	640.5
45°	8164.0	5862.0	832.4	630.7	513.3
47.5°	7748.6	5021.6	727.9	533.6	442.9
50°	7305.7	3839.5	659.1	474.5	440.5
52.5°	6780.2	2511.6	608.8	454.2	411.3
55°	6262.8	1615.3	510.1	431.5	384.6
57.5°	5704.1	1024.2	450.2	418.6	401.6
60°	5065.3	690.6	398.4	396.7	360.3
62.5°	4474.2	567.6	384.6	380.6	340.9
65°	3848.4	476.1	380.6	357.9	332.8
67.5°	3223.3	408.1	344.1	327.1	305.2
70°	2612.0	373.3	331.2	323.9	277.7
72.5°	1983.7	307.6	293.9	274.5	230.8
75°	1477.6	300.4	285.8	248.5	227.5
77.5°	1000.0	276.9	259.9	222.7	205.7
80°	622.7	254.2	222.7	195.1	174.0
82.5°	370.0	212.1	183.0	161.1	147.3
85°	208.1	163.6	140.1	128.7	127.9
87.5°	44.5	59.1	47.0	44.5	31.6
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)