

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: P730601

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730601
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-LD5-18SE-N-CLI-UNV-L835
Description: 18000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16224.0 lumens
Efficiency: N/A
Efficacy: 141.3 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

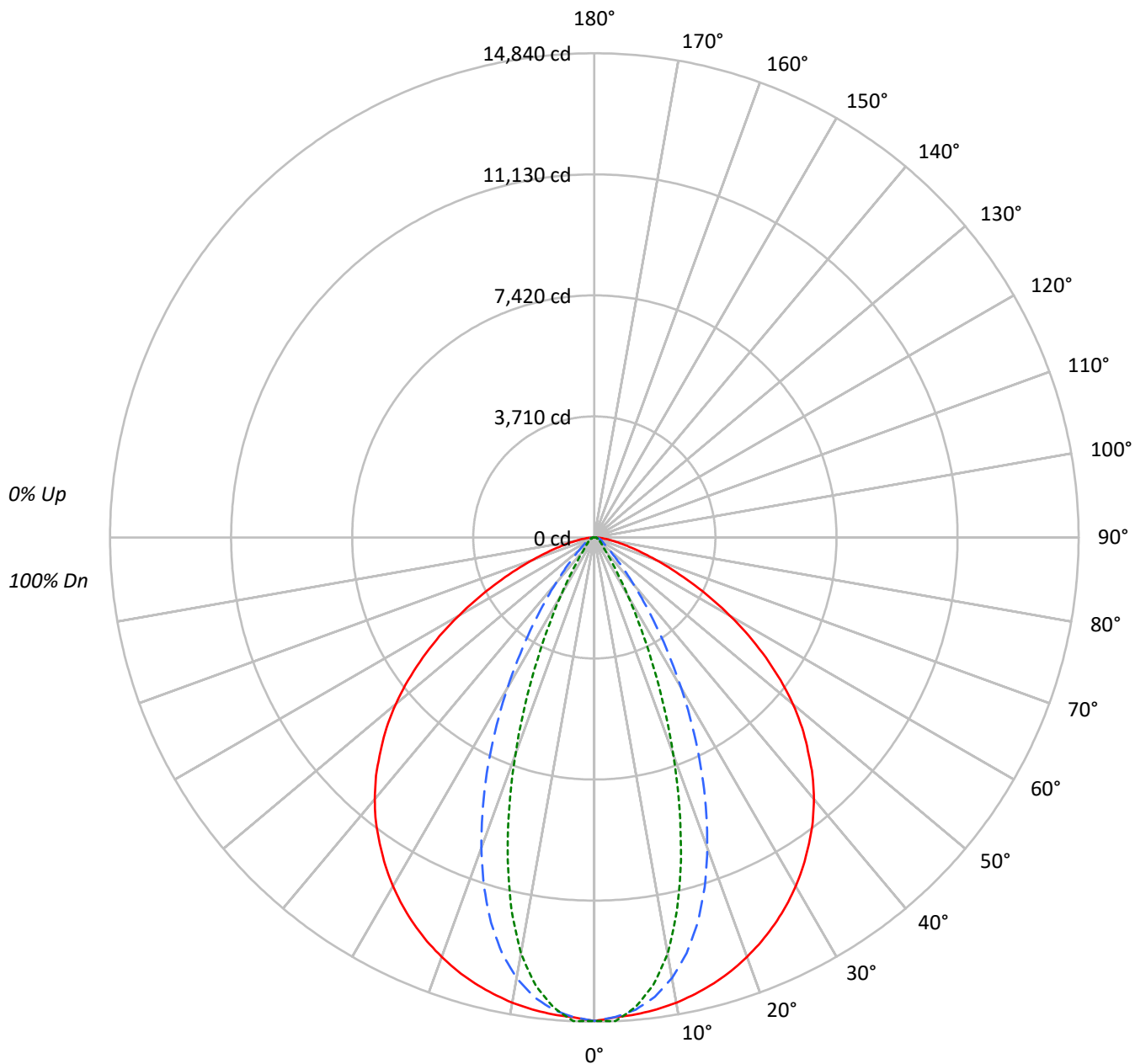
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	23927	23927	23927
5°	23783	23547	23423
10°	23743	22480	21214
15°	23648	20434	17132
20°	23506	17388	12143
25°	23296	13711	7337
30°	23013	9895	3770
35°	22597	6469	1883
40°	22061	3886	1099
45°	21145	2321	822
50°	19943	1517	690
55°	18050	1151	602
60°	15511	980	549
65°	12477	895	519
70°	9399	958	516
75°	6914	911	531
80°	5058	907	581
85°	3788	1100	752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1364.8	8.4
10°-20°	3395.3	20.9
20°-30°	3760.8	23.2
30°-40°	3013.1	18.6
40°-50°	2150.9	13.3
50°-60°	1381.6	8.5
60°-70°	748.7	4.6
70°-80°	320.0	2.0
80°-90°	88.8	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°	8520.9	52.5
0°-40°	11534.0	71.1
0°-60°	15066.5	92.9
0°-90°	16224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16224.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14819	14819	14819	14819	14819	
5°	14674	14729	14528	14482	14452	###
15°	14147	13705	12225	10804	10249	3992
25°	13076	11530	7696	5014	4118	6024
35°	11465	8292	3282	1324	955	7168
45°	9260	4787	1016	432	360	7138
55°	6412	2140	409	251	214	5714
65°	3266	879	234	162	136	3270
75°	1108	322	146	102	85	1232
85°	204	85	59	49	41	250
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14819.4	14819.4	14819.4	14819.4	14819.4
2.5°	14721.9	14814.0	14714.8	14776.5	14839.7
5°	14674.3	14728.9	14528.3	14482.2	14451.8
7.5°	14591.5	14575.9	14199.0	13954.6	13836.7
10°	14482.2	14355.8	13711.8	13174.9	12939.1
12.5°	14326.1	14065.4	13052.3	12109.4	11709.8
15°	14147.4	13704.8	12224.9	10803.6	10249.4
17.5°	13933.5	13283.3	11235.9	9403.3	8671.9
20°	13680.6	12774.4	10119.8	7915.5	7067.0
22.5°	13398.1	12187.5	8924.8	6432.5	5522.4
25°	13076.5	11530.2	7696.2	5014.2	4118.2
27.5°	12729.2	10800.5	6474.7	3746.6	2929.4
30°	12343.5	10010.5	5307.7	2701.5	2022.4
32.5°	11922.8	9170.7	4223.6	1899.8	1383.1
35°	11464.7	8292.5	3282.2	1323.8	955.4
37.5°	10995.5	7396.5	2479.0	935.8	685.3
40°	10467.1	6503.5	1843.7	685.3	521.4
42.5°	9899.7	5627.7	1364.4	527.6	422.3
45°	9260.4	4787.1	1016.3	432.4	359.9
47.5°	8640.7	4003.5	772.0	368.4	313.0
50°	7939.7	3296.3	604.1	321.6	274.7
52.5°	7195.9	2674.2	490.2	283.3	242.0
55°	6412.2	2140.2	409.0	251.3	213.9
57.5°	5618.4	1695.3	349.7	224.0	190.5
60°	4803.5	1355.8	303.6	200.6	170.1
62.5°	4008.1	1084.2	265.4	180.3	152.2
65°	3265.8	878.9	234.2	161.6	135.8
67.5°	2579.7	694.7	218.6	145.2	122.6
70°	1991.1	540.9	203.0	129.6	109.3
72.5°	1508.8	415.3	179.6	115.5	96.8
75°	1108.3	321.6	146.0	101.5	85.1
77.5°	793.1	247.5	118.6	88.2	73.4
80°	544.0	184.2	97.5	75.7	62.5
82.5°	353.6	130.4	78.8	62.5	51.5
85°	204.5	85.1	59.4	49.2	40.6
87.5°	88.2	46.8	40.6	36.7	31.2
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)