

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: P730599

Luminaire Tested: **HBLED-LD5-18SE-N-CLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730599
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-L740
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: 17486.0 lumens
Efficiency: N/A
Efficacy: 152.3 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

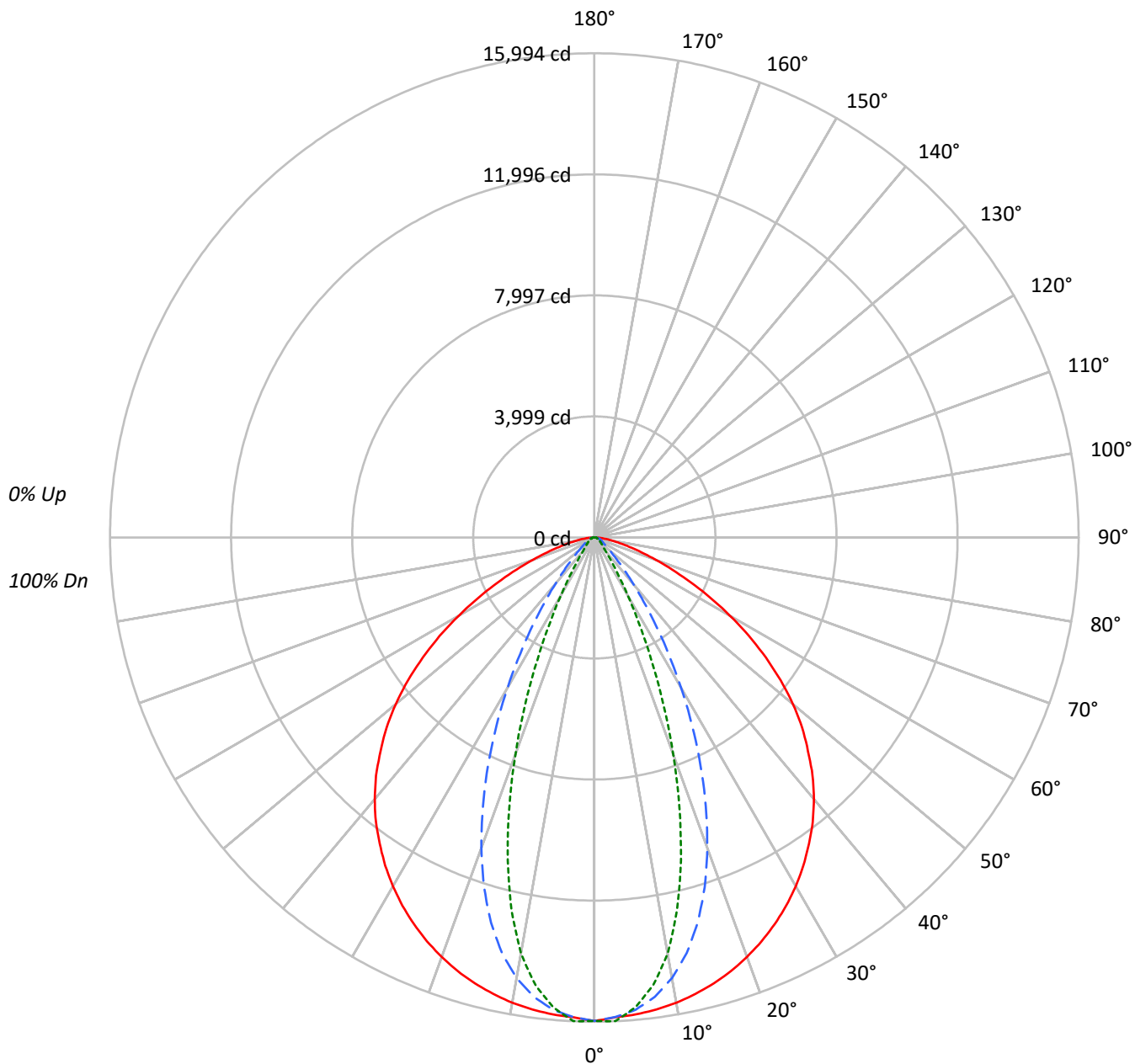
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	98	90	84	79	96	88	83	78	86	81	77		83	79	75		81
4	92	82	75	70	90	81	75	70	79	73	69		77	72	68		75
5	86	76	69	63	84	75	68	63	73	67	62		71	66	62		69
6	81	70	63	58	79	69	62	57	68	62	57		66	61	57		65
7	76	65	58	53	75	64	58	53	63	57	52		62	56	52		60
8	72	61	54	49	70	60	53	49	59	53	48		58	52	48		57
9	68	57	50	45	67	56	50	45	55	49	45		54	49	45		53
10	64	53	47	42	63	53	46	42	52	46	42		51	46	42		50

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25789	25789	25789
5°	25633	25378	25245
10°	25590	24229	22864
15°	25488	22024	18465
20°	25335	18740	13087
25°	25108	14777	7907
30°	24803	10665	4064
35°	24355	6973	2030
40°	23778	4188	1184
45°	22790	2501	886
50°	21495	1635	744
55°	19454	1241	649
60°	16718	1057	592
65°	13448	964	559
70°	10131	1033	556
75°	7452	981	572
80°	5451	977	626
85°	4083	1186	810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1470.9	8.4
10°-20°	3659.4	20.9
20°-30°	4053.4	23.2
30°-40°	3247.4	18.6
40°-50°	2318.3	13.3
50°-60°	1489.1	8.5
60°-70°	807.0	4.6
70°-80°	344.9	2.0
80°-90°	95.6	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°	9183.7	52.5
0°-40°	12431.2	71.1
0°-60°	16238.5	92.9
0°-90°	17486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17486.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15972	15972	15972	15972	15972	
5°	15816	15875	15658	15609	15576	###
15°	15248	14771	13176	11644	11047	4302
25°	14094	12427	8295	5404	4438	6493
35°	12356	8938	3538	1427	1030	7726
45°	9981	5159	1095	466	388	7693
55°	6911	2307	441	271	230	6159
65°	3520	947	252	174	146	3525
75°	1195	347	157	109	92	1327
85°	220	92	64	53	44	269
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15972.2	15972.2	15972.2	15972.2	15972.2
2.5°	15867.0	15966.3	15859.4	15925.9	15994.0
5°	15815.7	15874.6	15658.4	15608.7	15576.0
7.5°	15726.5	15709.7	15303.4	15040.1	14913.0
10°	15608.7	15472.4	14778.4	14199.7	13945.6
12.5°	15440.5	15159.5	14067.6	13051.3	12620.6
15°	15247.9	14770.9	13175.8	11643.9	11046.6
17.5°	15017.3	14316.6	12109.9	10134.7	9346.4
20°	14744.8	13768.1	10907.0	8531.2	7616.8
22.5°	14440.3	13135.5	9619.0	6932.8	5952.0
25°	14093.7	12427.1	8294.9	5404.3	4438.5
27.5°	13719.3	11640.6	6978.3	4038.1	3157.2
30°	13303.7	10789.2	5720.6	2911.6	2179.7
32.5°	12850.3	9884.0	4552.1	2047.6	1490.7
35°	12356.5	8937.6	3537.5	1426.8	1029.7
37.5°	11850.8	7971.8	2671.8	1008.6	738.6
40°	11281.3	7009.4	1987.1	738.6	561.9
42.5°	10669.7	6065.5	1470.6	568.6	455.1
45°	9980.7	5159.4	1095.4	466.1	387.9
47.5°	9312.8	4314.9	832.0	397.1	337.3
50°	8557.3	3552.7	651.1	346.6	296.1
52.5°	7755.6	2882.2	528.3	305.4	260.8
55°	6910.9	2306.7	440.8	270.9	230.5
57.5°	6055.4	1827.2	376.9	241.4	205.3
60°	5177.1	1461.3	327.2	216.2	183.4
62.5°	4319.9	1168.5	286.0	194.3	164.1
65°	3519.9	947.2	252.4	174.2	146.4
67.5°	2780.3	748.7	235.6	156.5	132.1
70°	2146.0	583.0	218.8	139.6	117.8
72.5°	1626.1	447.6	193.5	124.5	104.3
75°	1194.6	346.6	157.3	109.4	91.7
77.5°	854.7	266.7	127.9	95.0	79.1
80°	586.3	198.6	105.1	81.6	67.3
82.5°	381.1	140.5	85.0	67.3	55.5
85°	220.4	91.7	64.0	53.0	43.7
87.5°	95.0	50.4	43.7	39.6	33.6
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)