

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: P730587

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
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-UNV-L740
Description: 18000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17702.0 lumens
Efficiency: N/A
Efficacy: 154.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

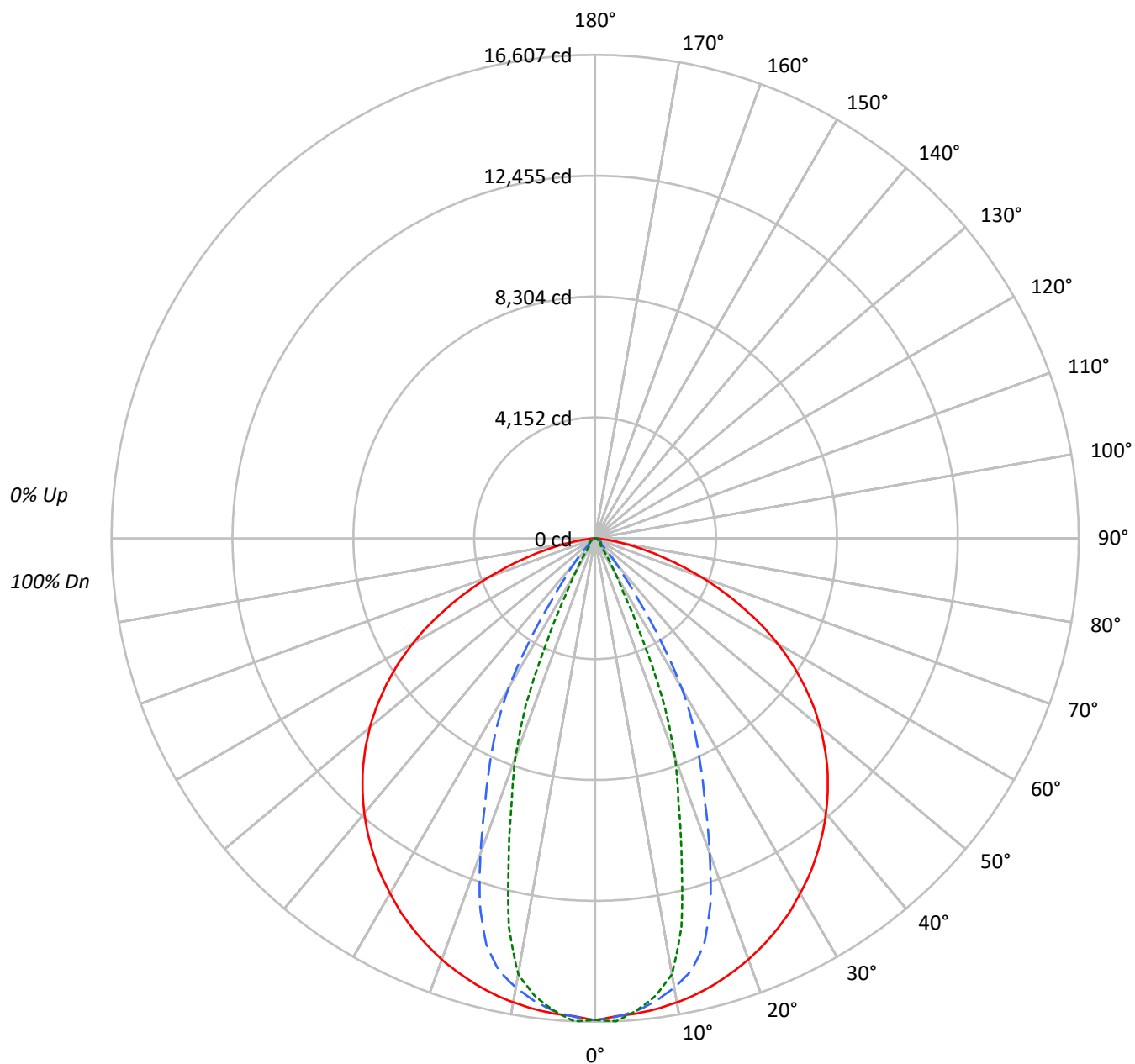
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	105	103	109	106	104	101		102	100	98		98	97	95		95	94	92
2	105	99	94	90	102	97	92	89		94	90	87		91	87	85		88	85	83
3	98	90	84	79	96	89	83	79		86	81	77		83	79	76		81	78	75
4	92	83	76	71	90	82	75	71		79	74	70		77	73	69		75	71	68
5	86	76	69	64	85	75	69	64		73	68	63		72	67	63		70	66	62
6	81	71	64	59	80	70	63	58		68	62	58		67	62	58		65	61	57
7	77	66	59	54	75	65	58	54		64	58	53		62	57	53		61	56	53
8	72	61	55	50	71	61	54	50		60	54	49		59	53	49		58	53	49
9	69	58	51	46	67	57	51	46		56	50	46		55	50	46		54	49	46
10	65	54	48	43	64	54	47	43		53	47	43		52	47	43		51	46	43

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26724	26724	26724
5°	26560	26422	26402
10°	26542	25691	24933
15°	26512	24159	19171
20°	26460	19770	13751
25°	26377	15233	6988
30°	26252	11117	2542
35°	26159	5105	885
40°	25998	2317	611
45°	25766	864	619
50°	25356	628	651
55°	24605	660	496
60°	23382	706	438
65°	21205	537	356
70°	18181	388	328
75°	13896	344	312
80°	8695	323	338
85°	2745	376	456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1541.0	8.7
10°-20°	3881.8	21.9
20°-30°	4227.5	23.9
30°-40°	3162.4	17.9
40°-50°	2273.8	12.8
50°-60°	1396.5	7.9
60°-70°	803.6	4.5
70°-80°	358.6	2.0
80°-90°	56.9	0.3
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°	9650.3	54.5
0°-40°	12812.6	72.4
0°-60°	16482.9	93.1
0°-90°	17702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17702.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16552	16552	16552	16552	16552	
5°	16388	16465	16302	16317	16290	###
15°	15861	15557	14453	12413	11469	4477
25°	14806	13744	8550	5486	3922	6825
35°	13271	9518	2590	762	449	8302
45°	11284	5348	379	280	271	8693
55°	8741	1111	235	227	176	7793
65°	5550	122	141	117	93	5494
75°	2228	74	55	57	50	2417
85°	148	14	20	26	25	295
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16551.8	16551.8	16551.8	16551.8	16551.8
2.5°	16436.7	16544.2	16453.6	16534.9	16606.9
5°	16387.5	16464.6	16302.0	16317.2	16290.1
7.5°	16302.8	16321.4	16027.6	15914.1	15859.0
10°	16189.3	16139.4	15670.1	15400.0	15207.7
12.5°	16046.2	15881.0	15225.4	14260.7	13685.7
15°	15860.7	15556.6	14453.0	12412.6	11469.0
17.5°	15639.6	15217.8	13174.0	10345.1	9528.6
20°	15400.0	14843.5	11506.3	8796.0	8003.2
22.5°	15117.1	14364.9	9861.5	7315.4	6227.1
25°	14806.2	13744.1	8550.4	5486.0	3922.4
27.5°	14470.8	12925.0	7336.6	3364.2	2120.9
30°	14081.2	11928.1	5962.8	1888.0	1363.6
32.5°	13700.9	10766.1	4259.5	1257.7	871.5
35°	13271.4	9518.5	2590.1	761.5	448.9
37.5°	12816.6	8384.3	1621.1	414.2	310.0
40°	12334.7	7308.6	1099.4	293.9	289.7
42.5°	11819.7	6335.4	688.6	279.5	288.8
45°	11284.4	5347.9	378.6	280.4	271.1
47.5°	10703.4	4275.6	264.3	265.1	264.3
50°	10094.4	3066.9	249.9	261.7	259.2
52.5°	9438.0	1904.1	250.7	255.8	229.5
55°	8740.9	1111.2	234.6	227.0	176.2
57.5°	8008.2	692.8	229.5	187.2	158.4
60°	7240.9	365.9	218.5	168.6	135.5
62.5°	6423.5	180.4	175.3	144.0	111.0
65°	5550.3	122.0	140.6	116.9	93.2
67.5°	4706.7	110.1	105.9	95.7	81.3
70°	3851.3	100.8	82.1	83.8	69.5
72.5°	3011.9	91.4	66.0	72.0	58.4
75°	2227.6	73.7	55.1	56.7	50.0
77.5°	1550.0	57.6	43.2	48.3	46.6
80°	935.1	36.4	34.7	39.8	36.4
82.5°	453.1	23.7	27.1	31.3	28.8
85°	148.2	14.4	20.3	26.2	24.6
87.5°	18.6	8.5	16.9	22.9	21.2
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)