

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: P730627

Luminaire Tested: **HBLED-LD5-18SE-W-CL-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23762)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-CL-UNV-L850
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
& DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17228.0 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

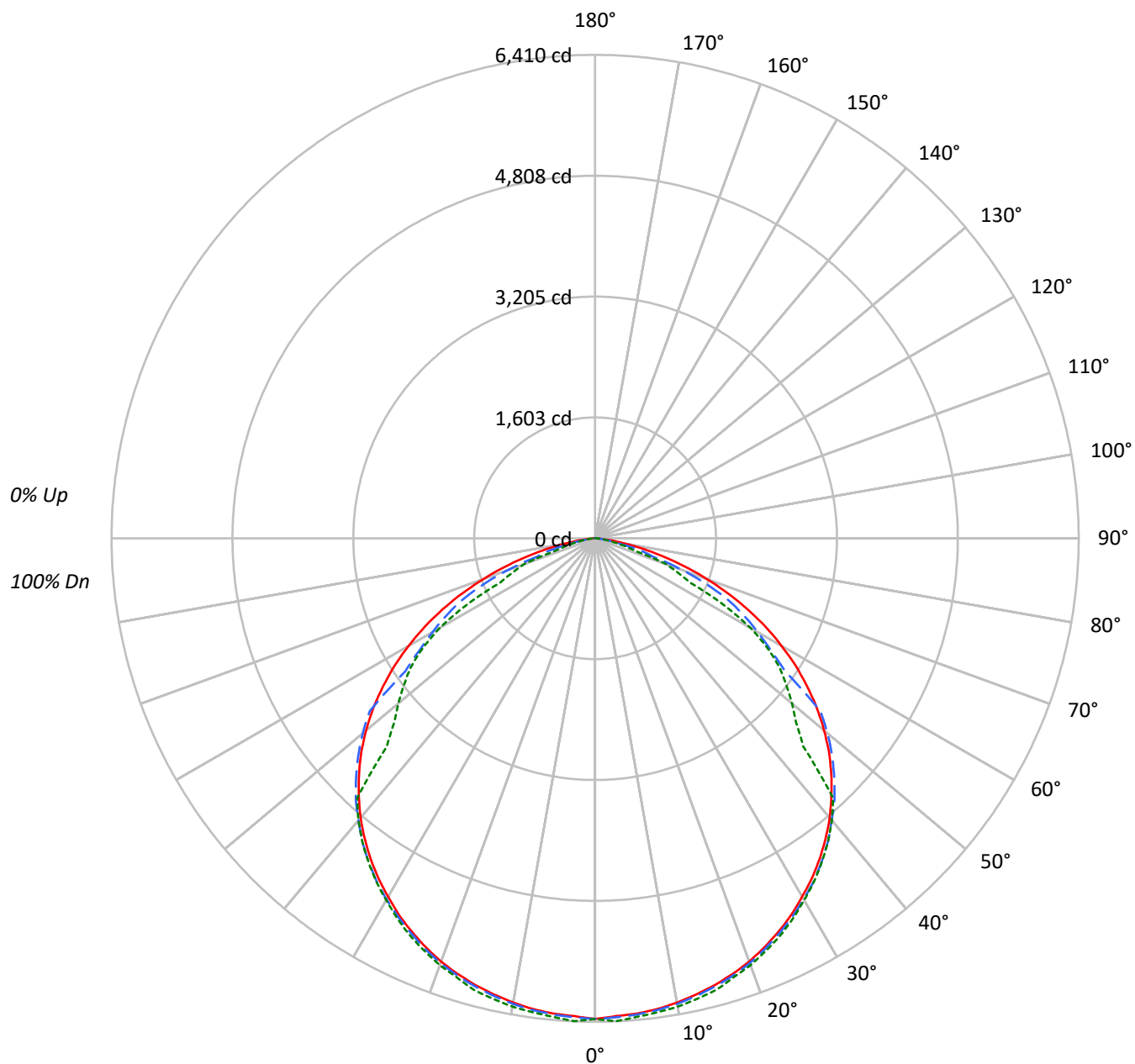
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	64	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	55	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	42	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	38	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	34	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	30	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10289	10289	10289
5°	10252	10274	10325
10°	10251	10280	10340
15°	10250	10281	10364
20°	10263	10301	10349
25°	10251	10290	10352
30°	10232	10307	10330
35°	10227	10320	10328
40°	10195	10285	10285
45°	10108	10230	8913
50°	9951	10102	8552
55°	9669	8647	8400
60°	9215	8038	7674
65°	8523	7461	5315
70°	7421	5806	4736
75°	5862	3896	2546
80°	3773	1861	1587
85°	1552	1136	1250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.5	3.5
10°-20°	1742.4	10.1
20°-30°	2671.3	15.5
30°-40°	3274.1	19.0
40°-50°	3366.0	19.5
50°-60°	2872.7	16.7
60°-70°	1899.2	11.0
70°-80°	703.6	4.1
80°-90°	94.1	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°	5018.2	29.1
0°-40°	8292.3	48.1
0°-60°	14531.0	84.3
0°-90°	17228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6373	6373	6373	6373	6373	
5°	6325	6370	6339	6364	6370	602
15°	6132	6169	6151	6197	6200	1732
25°	5754	5784	5776	5828	5811	2653
35°	5189	5224	5236	5268	5240	3245
45°	4427	4471	4480	4473	3904	3411
55°	3435	3498	3072	2983	2984	3065
65°	2231	2249	1953	1606	1391	2200
75°	940	823	625	420	408	1008
85°	84	60	61	67	68	139
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6372.6	6372.6	6372.6	6372.6	6372.6
2.5°	6341.5	6381.1	6357.8	6387.3	6409.8
5°	6325.3	6369.5	6339.2	6364.0	6370.2
7.5°	6297.3	6338.4	6310.5	6343.1	6338.4
10°	6252.3	6289.5	6270.2	6304.3	6306.6
12.5°	6194.9	6232.1	6214.3	6256.1	6255.4
15°	6132.0	6169.3	6150.6	6197.2	6200.3
17.5°	6058.3	6092.5	6078.5	6121.2	6104.1
20°	5972.9	6002.4	5995.4	6035.8	6023.4
22.5°	5868.2	5898.5	5891.5	5938.1	5919.4
25°	5754.2	5784.5	5775.9	5827.9	5810.8
27.5°	5630.8	5659.5	5658.7	5707.6	5681.3
30°	5488.0	5526.1	5528.4	5571.8	5540.8
32.5°	5346.8	5382.5	5392.6	5424.4	5398.1
35°	5188.6	5224.2	5235.9	5268.5	5239.8
37.5°	5017.8	5048.1	5069.0	5093.1	5070.6
40°	4837.0	4864.2	4879.7	4909.2	4879.7
42.5°	4635.3	4674.1	4695.8	4716.8	4668.7
45°	4426.6	4470.8	4480.1	4473.1	3903.6
47.5°	4205.5	4253.6	4259.0	3714.3	3609.6
50°	3961.8	4022.4	4021.6	3432.6	3404.7
52.5°	3708.1	3766.3	3764.0	3212.3	3193.7
55°	3434.9	3497.8	3071.8	2982.6	2984.2
57.5°	3156.4	3201.4	2756.1	2759.9	2708.7
60°	2853.8	2896.5	2489.1	2465.1	2376.6
62.5°	2550.5	2568.3	2230.8	2113.6	1945.2
65°	2230.8	2249.4	1953.0	1606.1	1391.2
67.5°	1902.6	1921.2	1620.8	1194.9	1178.6
70°	1572.0	1419.9	1229.9	995.5	1003.2
72.5°	1246.1	1090.9	803.8	771.2	557.1
75°	939.7	823.2	624.6	419.8	408.1
77.5°	654.1	567.2	334.4	286.3	267.7
80°	405.8	284.8	200.2	177.7	170.7
82.5°	205.6	163.7	108.6	108.6	108.6
85°	83.8	59.8	61.3	66.7	67.5
87.5°	17.8	24.0	29.5	30.3	29.5
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)