

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: P730640

Luminaire Tested: **HBLED-LD5-18SE-W-FLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-FLI-UNV-L735
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16914.0 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

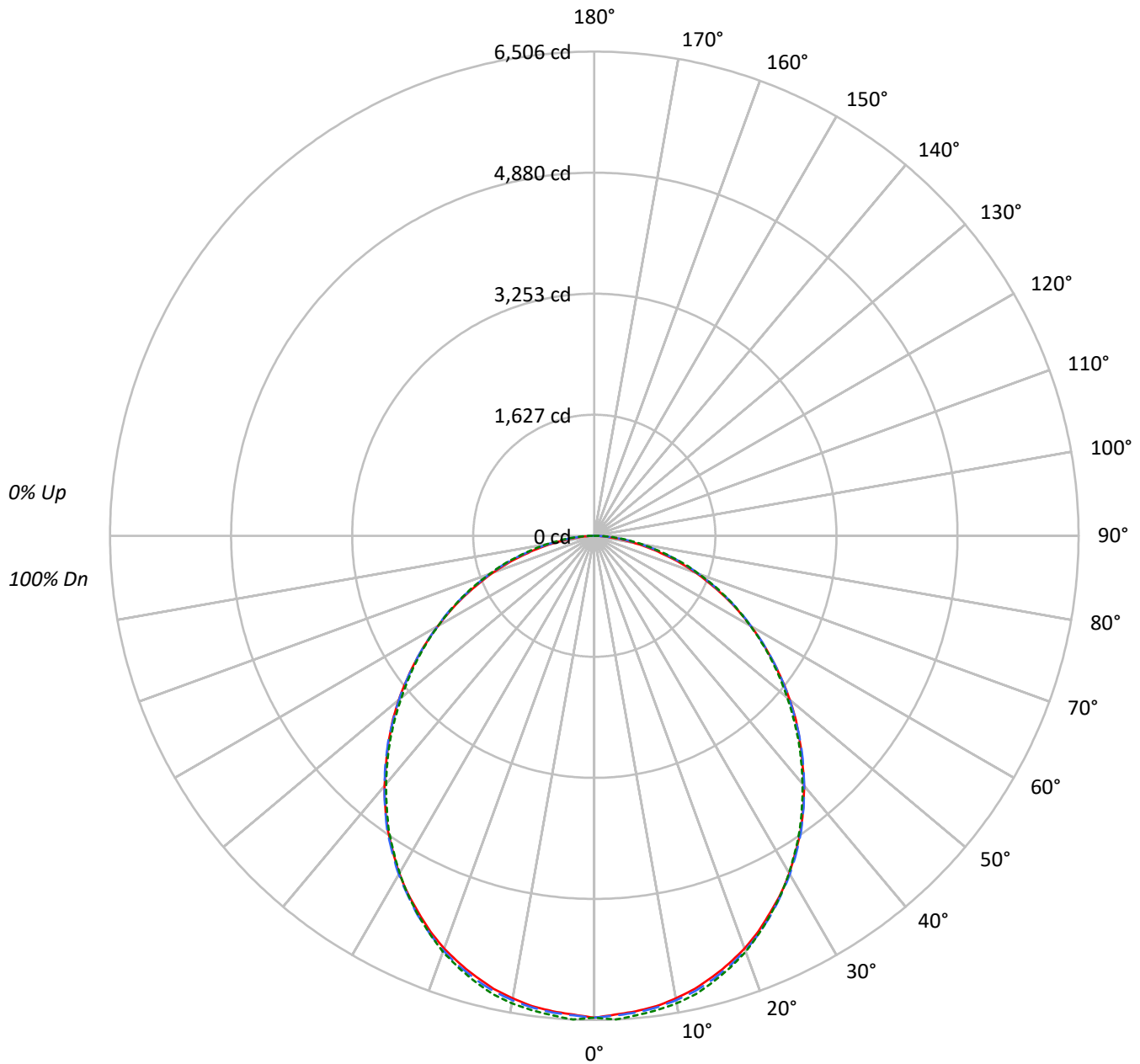
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10455	10455	10455
5°	10395	10425	10484
10°	10348	10390	10457
15°	10257	10313	10363
20°	10141	10190	10219
25°	9953	10010	9995
30°	9770	9796	9756
35°	9528	9552	9491
40°	9241	9241	9170
45°	8918	8943	8851
50°	8612	8597	8490
55°	8239	8240	8166
60°	7840	7849	7819
65°	7389	7463	7482
70°	6825	7012	7019
75°	6031	6422	6522
80°	4947	5624	5942
85°	3433	4722	5339



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.4	3.6
10°-20°	1742.1	10.3
20°-30°	2588.9	15.3
30°-40°	3027.1	17.9
40°-50°	3018.1	17.8
50°-60°	2618.6	15.5
60°-70°	1934.1	11.4
70°-80°	1082.9	6.4
80°-90°	288.9	1.7
90°-100°	0.9	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°	4943.4	29.2
0°-40°	7970.5	47.1
0°-60°	13607.2	80.4
0°-90°	16913.1	100.0
90°-120°	0.9	0.0
90°-150°	0.9	0.0
90°-180°	1.0	0.0
0°-180°	16914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6475	6475	6475	6475	6475	
5°	6414	6454	6432	6460	6469	609
15°	6136	6179	6170	6199	6200	1731
25°	5587	5632	5619	5631	5610	2576
35°	4834	4876	4846	4845	4815	3019
45°	3906	3947	3916	3900	3876	3015
55°	2927	2947	2927	2922	2901	2617
65°	1934	1953	1954	1963	1958	1913
75°	967	996	1030	1037	1046	1030
85°	185	224	255	278	288	225
90°	0	4	5	11	10	8
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6475.2	6475.2	6475.2	6475.2	6475.2
2.5°	6439.8	6478.1	6451.3	6476.8	6506.5
5°	6413.8	6454.2	6431.9	6460.3	6468.6
7.5°	6376.0	6415.1	6393.7	6422.1	6430.7
10°	6311.7	6354.1	6337.2	6369.4	6378.4
12.5°	6236.8	6276.7	6265.6	6303.0	6309.2
15°	6136.3	6179.1	6169.6	6199.3	6199.7
17.5°	6025.1	6065.4	6058.4	6081.5	6080.7
20°	5902.0	5945.2	5930.4	5955.5	5947.6
22.5°	5756.2	5802.3	5783.8	5804.8	5785.0
25°	5587.0	5631.9	5618.7	5631.0	5610.4
27.5°	5423.1	5464.3	5437.0	5451.9	5430.1
30°	5240.2	5275.2	5254.3	5259.2	5232.8
32.5°	5034.8	5076.4	5050.8	5050.0	5022.0
35°	4833.8	4876.2	4846.2	4845.3	4815.3
37.5°	4611.5	4651.0	4615.6	4617.6	4582.7
40°	4384.6	4418.8	4384.6	4382.9	4350.8
42.5°	4138.3	4183.6	4152.4	4156.0	4113.2
45°	3905.7	3947.3	3916.4	3900.3	3876.4
47.5°	3673.9	3692.0	3666.4	3662.3	3628.6
50°	3428.4	3442.0	3422.6	3417.7	3379.9
52.5°	3174.8	3198.3	3173.5	3166.9	3141.9
55°	2926.9	2947.0	2927.3	2922.4	2900.9
57.5°	2677.4	2703.7	2683.6	2678.6	2661.3
60°	2427.9	2435.6	2430.7	2438.1	2421.3
62.5°	2179.9	2198.0	2203.8	2201.8	2188.6
65°	1934.1	1953.1	1953.5	1963.4	1958.4
67.5°	1682.5	1707.2	1714.3	1724.5	1729.0
70°	1445.7	1464.7	1485.3	1491.4	1486.9
72.5°	1207.3	1237.8	1260.9	1266.2	1285.6
75°	966.8	995.7	1029.5	1036.8	1045.5
77.5°	743.7	781.9	812.4	822.3	833.0
80°	532.0	574.4	604.9	618.5	639.1
82.5°	349.2	392.4	423.3	436.9	462.0
85°	185.3	224.0	254.9	277.5	288.2
87.5°	54.8	87.7	105.4	112.0	121.5
90°	0.0	4.1	4.9	11.1	10.3
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)