

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: P#

Luminaire Tested: **8ILED-LD5-18-W-UNV-L840-CD2-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34173)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-18-W-UNV-L840-CD2-U  
Description: Metalux 8' ILED WITH OPEN WIDE DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

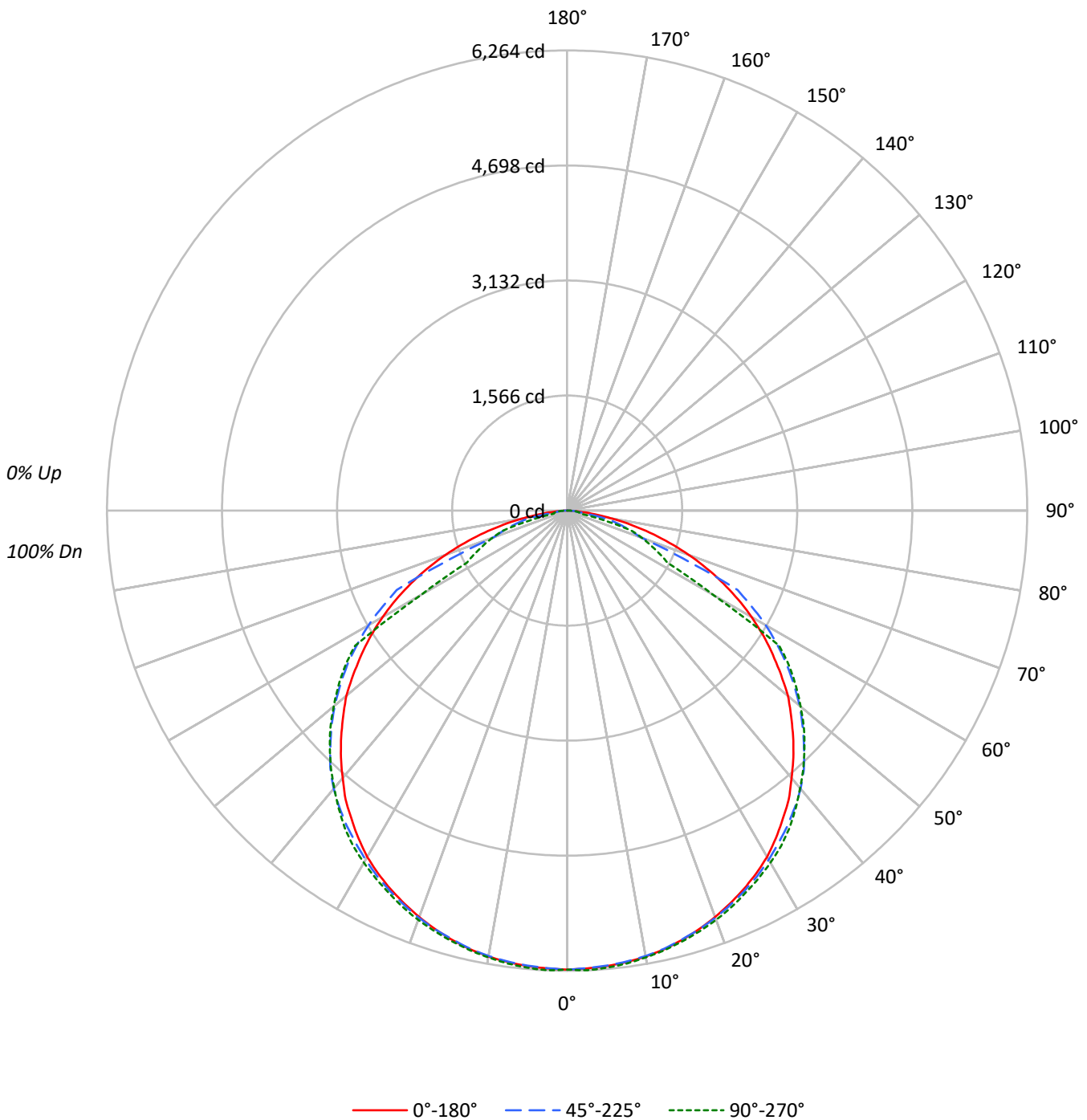
Lumens per Lamp: N/A  
Luminaire Lumens: 18032.0 lumens  
Efficiency: N/A  
Efficacy: 137.3 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 131.3  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9172	9172	9172
5°	9160	9094	9116
10°	9167	9039	9032
15°	9162	8975	8961
20°	9155	8936	8909
25°	9156	8893	8851
30°	9158	8860	8824
35°	9097	8845	8782
40°	9013	8837	8662
45°	8918	8714	8551
50°	8830	8556	8383
55°	8590	8320	8176
60°	8337	7986	5677
65°	7929	7509	3894
70°	7300	3671	3566
75°	6310	3205	2226
80°	4773	1909	910
85°	2493	973	839



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	592.7	3.3
10°-20°	1711.4	9.5
20°-30°	2638.8	14.6
30°-40°	3267.5	18.1
40°-50°	3478.3	19.3
50°-60°	3209.6	17.8
60°-70°	2055.0	11.4
70°-80°	925.6	5.1
80°-90°	152.9	0.8
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°	4943.0	27.4
0°-40°	8210.5	45.5
0°-60°	14898.4	82.6
0°-90°	18032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18032.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6249	6249	6249	6249	6249	
5°	6224	6234	6219	6236	6246	592
15°	6050	6060	6042	6072	6069	1708
25°	5686	5701	5711	5748	5743	2622
35°	5121	5174	5233	5288	5276	3206
45°	4350	4440	4559	4589	4569	3356
55°	3417	3541	3651	3710	3693	3056
65°	2344	2456	2561	1414	1384	2315
75°	1165	1267	746	766	552	1237
85°	169	127	114	122	112	247
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6248.6	6248.6	6248.6	6248.6	6248.6
2.5°	6238.6	6251.1	6233.7	6251.1	6263.5
5°	6223.7	6233.7	6218.7	6236.1	6246.1
7.5°	6198.8	6208.8	6191.4	6208.8	6218.7
10°	6164.0	6169.0	6156.5	6173.9	6176.4
12.5°	6114.2	6119.2	6109.2	6126.7	6129.1
15°	6049.5	6059.5	6042.0	6071.9	6069.4
17.5°	5974.9	5984.8	5977.3	5999.7	6002.2
20°	5887.8	5897.7	5900.2	5927.6	5930.1
22.5°	5790.7	5805.6	5808.1	5845.5	5843.0
25°	5686.2	5701.1	5711.1	5748.4	5743.4
27.5°	5571.7	5591.6	5606.6	5643.9	5643.9
30°	5442.3	5469.7	5487.1	5536.9	5534.4
32.5°	5288.0	5340.3	5360.2	5422.4	5417.4
35°	5121.3	5173.6	5233.3	5288.0	5275.6
37.5°	4957.1	5009.3	5091.4	5123.8	5108.9
40°	4753.0	4840.1	4944.6	4957.1	4934.7
42.5°	4558.9	4628.6	4770.4	4777.9	4758.0
45°	4349.9	4439.5	4558.9	4588.8	4568.9
47.5°	4133.4	4210.5	4349.9	4387.2	4372.3
50°	3924.3	3994.0	4130.9	4168.2	4148.3
52.5°	3668.0	3772.5	3889.5	3949.2	3926.8
55°	3416.7	3541.1	3650.6	3710.3	3692.9
57.5°	3165.4	3302.2	3384.3	3466.5	3424.2
60°	2901.6	3036.0	3125.5	3088.2	2299.4
62.5°	2627.8	2757.2	2831.9	1898.7	1540.4
65°	2344.2	2456.1	2560.7	1413.5	1383.6
67.5°	2055.5	2167.5	1704.6	1256.7	1229.3
70°	1759.4	1863.9	1057.6	1094.9	1080.0
72.5°	1460.7	1560.3	908.3	950.6	930.7
75°	1164.6	1266.6	746.5	766.5	552.4
77.5°	888.4	873.5	602.2	423.0	189.1
80°	604.7	403.1	335.9	176.7	174.2
82.5°	375.8	271.2	141.8	156.8	154.3
85°	169.2	126.9	114.5	121.9	112.0
87.5°	59.7	62.2	69.7	64.7	59.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)