

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-L850-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-L850-CD2-U  
Description: Metalux 8' ILED WITH OPEN WIDE DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

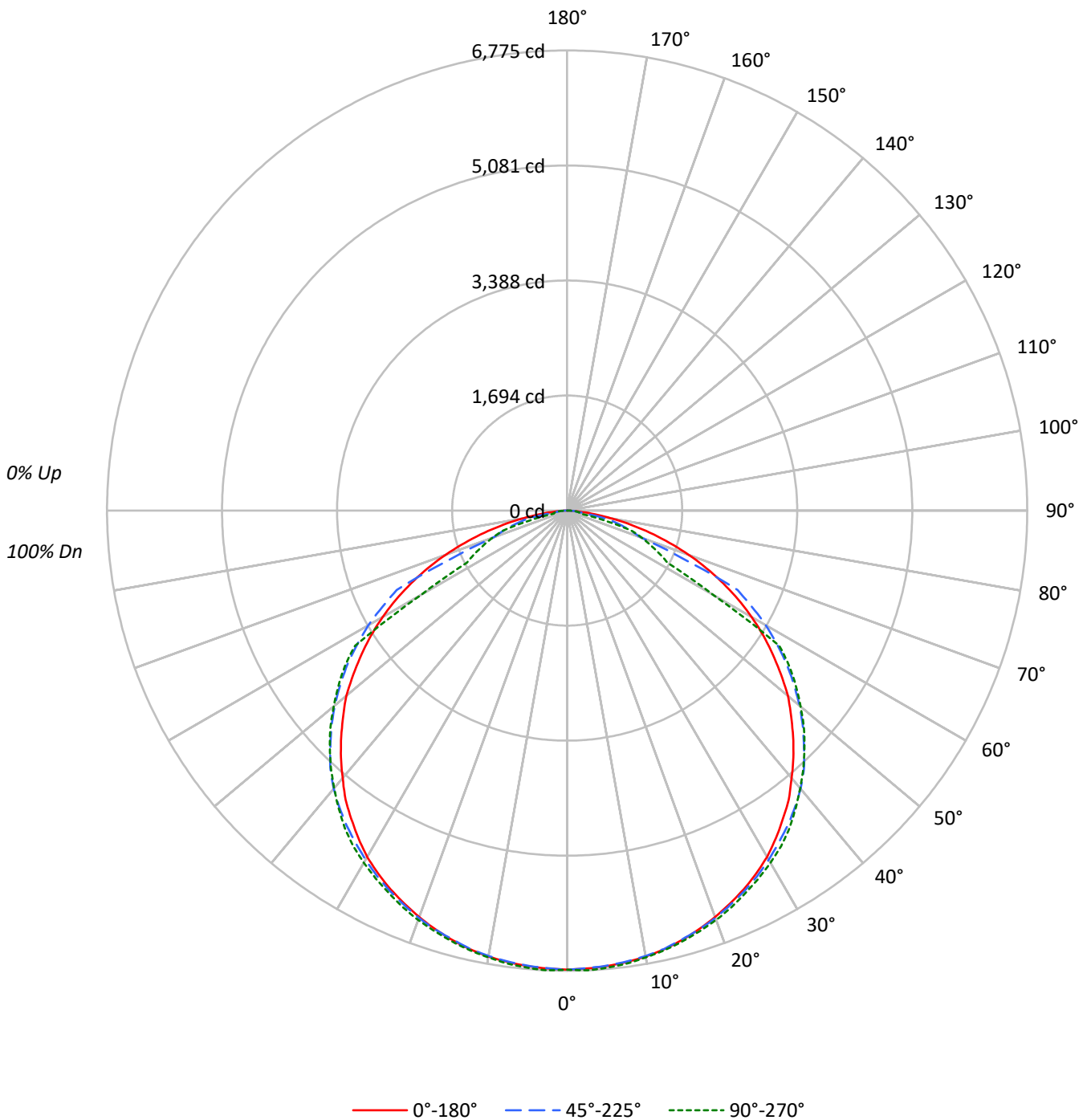
Lumens per Lamp: N/A  
Luminaire Lumens: 19505.0 lumens  
Efficiency: N/A  
Efficacy: 148.6 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

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	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					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°	9921	9921	9921
5°	9908	9837	9861
10°	9916	9777	9770
15°	9911	9708	9693
20°	9903	9667	9637
25°	9904	9619	9575
30°	9906	9584	9545
35°	9840	9567	9500
40°	9749	9559	9370
45°	9646	9426	9250
50°	9551	9255	9068
55°	9292	9000	8844
60°	9018	8639	6141
65°	8577	8122	4212
70°	7896	3971	3857
75°	6826	3467	2409
80°	5163	2065	984
85°	2697	1052	908



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	641.2	3.3
10°-20°	1851.2	9.5
20°-30°	2854.4	14.6
30°-40°	3534.4	18.1
40°-50°	3762.5	19.3
50°-60°	3471.8	17.8
60°-70°	2222.9	11.4
70°-80°	1001.3	5.1
80°-90°	165.3	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°	5346.8	27.4
0°-40°	8881.2	45.5
0°-60°	16115.5	82.6
0°-90°	19505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19505.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6759	6759	6759	6759	6759	
5°	6732	6743	6727	6746	6756	641
15°	6544	6554	6536	6568	6565	1848
25°	6151	6167	6178	6218	6213	2837
35°	5540	5596	5661	5720	5706	3467
45°	4705	4802	4931	4964	4942	3630
55°	3696	3830	3949	4013	3995	3305
65°	2536	2657	2770	1529	1497	2504
75°	1260	1370	808	829	598	1339
85°	183	137	124	132	121	267
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6759.0	6759.0	6759.0	6759.0	6759.0
2.5°	6748.3	6761.7	6742.9	6761.7	6775.2
5°	6732.1	6742.9	6726.7	6745.6	6756.3
7.5°	6705.2	6716.0	6697.1	6716.0	6726.7
10°	6667.5	6672.9	6659.4	6678.3	6681.0
12.5°	6613.7	6619.1	6608.3	6627.1	6629.8
15°	6543.7	6554.5	6535.6	6567.9	6565.2
17.5°	6462.9	6473.7	6465.6	6489.8	6492.5
20°	6368.7	6379.5	6382.2	6411.8	6414.5
22.5°	6263.7	6279.9	6282.6	6323.0	6320.3
25°	6150.7	6166.8	6177.6	6218.0	6212.6
27.5°	6026.9	6048.4	6064.5	6104.9	6104.9
30°	5886.9	5916.5	5935.3	5989.2	5986.5
32.5°	5720.0	5776.5	5798.1	5865.4	5860.0
35°	5539.7	5596.2	5660.8	5720.0	5706.5
37.5°	5362.0	5418.5	5507.4	5542.3	5526.2
40°	5141.3	5235.5	5348.5	5362.0	5337.8
42.5°	4931.3	5006.7	5160.1	5168.2	5146.7
45°	4705.2	4802.1	4931.3	4963.6	4942.1
47.5°	4471.0	4554.5	4705.2	4745.6	4729.4
50°	4244.9	4320.3	4468.3	4508.7	4487.2
52.5°	3967.7	4080.7	4207.2	4271.8	4247.6
55°	3695.8	3830.4	3948.8	4013.4	3994.6
57.5°	3423.9	3572.0	3660.8	3749.6	3703.9
60°	3138.6	3284.0	3380.9	3340.5	2487.2
62.5°	2842.5	2982.5	3063.2	2053.8	1666.2
65°	2535.6	2656.8	2769.8	1528.9	1496.6
67.5°	2223.4	2344.5	1843.9	1359.3	1329.7
70°	1903.1	2016.1	1144.0	1184.4	1168.2
72.5°	1580.1	1687.7	982.5	1028.3	1006.7
75°	1259.7	1370.1	807.5	829.1	597.6
77.5°	961.0	944.8	651.4	457.6	204.6
80°	654.1	436.1	363.4	191.1	188.4
82.5°	406.5	293.4	153.4	169.6	166.9
85°	183.0	137.3	123.8	131.9	121.1
87.5°	64.6	67.3	75.4	70.0	64.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)