

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-LD5-22-W-WG-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 (P34174)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-22-W-WG-UNV-L850-CD2-U  
Description: Metalux 8' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

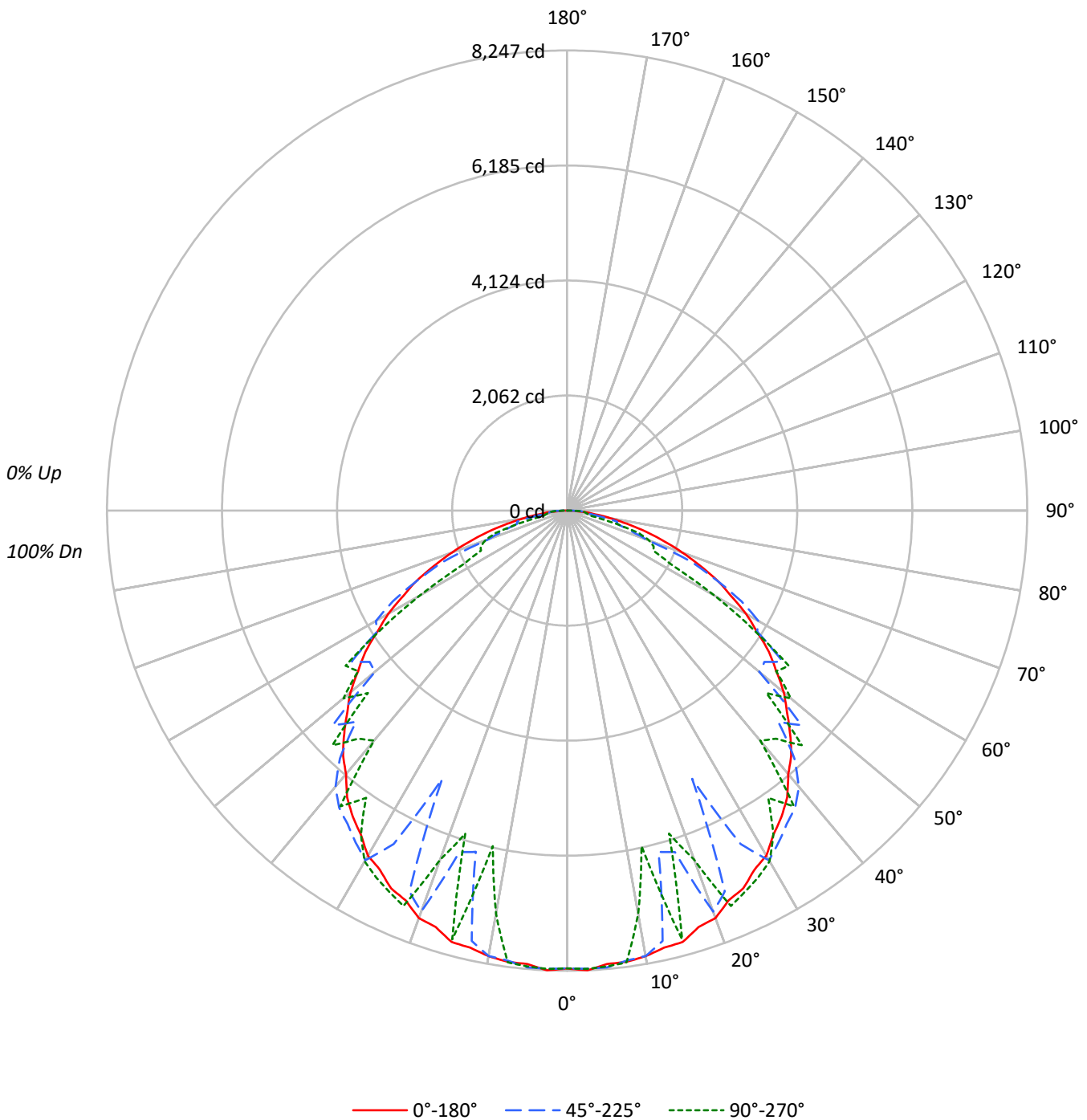
Lumens per Lamp: N/A  
Luminaire Lumens: 22560.0 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 167.7  
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	100	97	106	102	98	95	98	95	92		94	92	89		91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64		73	67	63		70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47		58	52	47		56	51	46	44
6	70	57	48	42	68	56	48	41	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36		48	41	36		46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		43	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26		37	31	26		36	30	26	24

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

	0°	45°	90°
0°	12043	12043	12043
5°	12008	12018	11970
10°	12060	11901	10732
15°	12122	9406	11744
20°	12082	11584	10008
25°	12029	8257	11620
30°	12012	11681	11571
35°	11897	11592	10460
40°	11690	11541	9447
45°	11587	10231	11132
50°	11406	9308	10577
55°	11108	10744	10736
60°	10634	10112	7554
65°	10081	8644	4796
70°	9090	5173	5160
75°	7914	3997	3540
80°	6258	3327	2044
85°	4751	2598	2367



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	777.2	3.4
10°-20°	2075.1	9.2
20°-30°	3217.6	14.3
30°-40°	4125.1	18.3
40°-50°	4224.5	18.7
50°-60°	4005.9	17.8
60°-70°	2565.8	11.4
70°-80°	1246.8	5.5
80°-90°	322.0	1.4
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°	6069.9	26.9
0°-40°	10195.0	45.2
0°-60°	18425.4	81.7
0°-90°	22560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22560.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8204	8204	8204	8204	8204	
5°	8158	8181	8218	8237	8201	779
15°	8004	8004	6333	7448	7954	2248
25°	7471	6454	5303	7586	7540	3434
35°	6698	6741	6859	6681	6283	4184
45°	5652	5662	5352	5388	5948	4356
55°	4418	4556	4714	4546	4849	3925
65°	2980	2911	2948	1915	1704	2920
75°	1461	1632	931	1128	878	1545
85°	322	283	306	322	316	365
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8204.5	8204.5	8204.5	8204.5	8204.5
2.5°	8247.2	8253.8	8217.6	8204.5	8220.9
5°	8158.4	8181.4	8217.6	8237.4	8201.2
7.5°	8155.1	8165.0	8135.4	8244.0	8165.0
10°	8109.1	8165.0	8105.8	7819.6	7339.3
12.5°	8023.5	8033.4	7898.5	5691.2	6158.3
15°	8003.8	8003.8	6332.6	7447.8	7954.5
17.5°	7826.2	7868.9	6418.2	7822.9	6069.5
20°	7770.2	7743.9	7648.5	5539.8	6661.6
22.5°	7559.7	7378.8	7385.3	7697.9	7668.3
25°	7470.9	6454.4	5303.0	7586.0	7540.0
27.5°	7260.3	5411.5	6737.3	7421.5	7411.7
30°	7138.6	5628.7	7234.0	7286.7	7257.0
32.5°	6882.0	6460.9	7053.1	7164.9	6878.7
35°	6697.8	6740.6	6859.0	6681.4	6283.3
37.5°	6477.4	6184.6	6711.0	6092.5	6678.1
40°	6164.9	4819.4	6457.7	6536.6	5381.9
42.5°	5944.5	4717.4	6030.0	5072.7	5543.1
45°	5651.7	5661.5	5352.3	5388.5	5947.8
47.5°	5345.7	5470.7	5694.4	5724.1	4842.4
50°	5069.4	5191.1	4493.7	4852.3	5233.9
52.5°	4724.0	4895.1	4457.5	5010.2	4724.0
55°	4418.0	4556.2	4714.1	4546.3	4849.0
57.5°	4026.6	4247.0	4036.4	4464.1	3941.0
60°	3700.9	3697.6	3957.5	3977.2	3059.4
62.5°	3309.4	3283.1	3520.0	2667.9	2118.6
65°	2980.5	2911.4	2947.6	1914.6	1704.1
67.5°	2569.2	2279.8	2427.8	1598.8	1677.7
70°	2190.9	2177.8	1490.2	1108.6	1562.6
72.5°	1815.9	1977.1	1174.4	1385.0	1352.1
75°	1460.6	1631.7	931.0	1128.4	878.3
77.5°	1095.5	1184.3	917.8	690.8	427.7
80°	792.8	559.2	585.6	391.5	391.5
82.5°	513.2	460.6	342.1	365.2	345.4
85°	322.4	282.9	305.9	322.4	315.8
87.5°	111.8	194.1	243.4	236.9	217.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)