

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-LD5-10-N-UNV-L850-CD1-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 (P34185)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-10-N-UNV-L850-CD1-U  
Description: Metalux 8' ILED WITH OPEN NARROW DISTRIBUTION  
Light Source: (1) 5000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

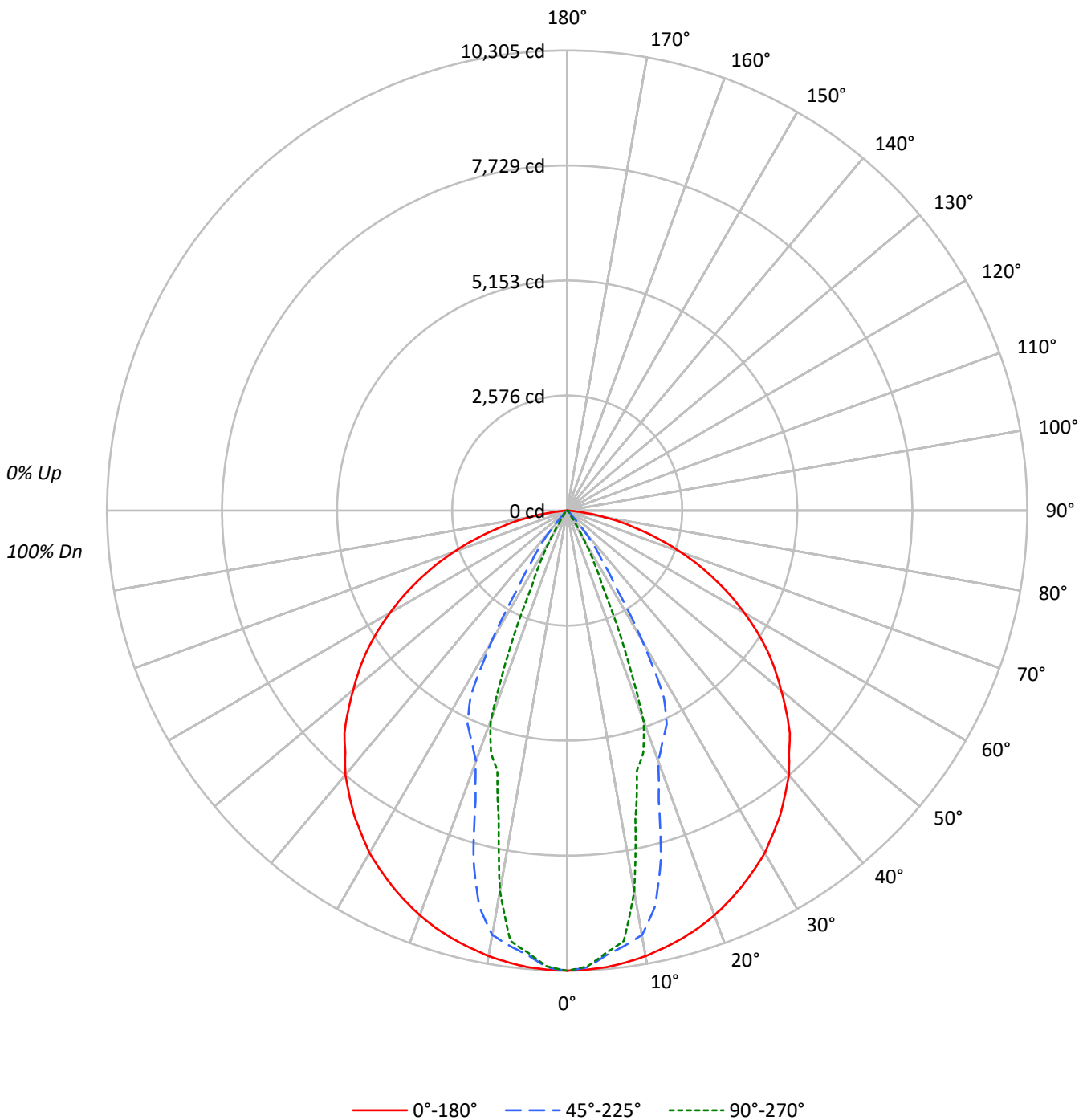
Lumens per Lamp: N/A  
Luminaire Lumens: 10365.0 lumens  
Efficiency: N/A  
Efficacy: 154.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 67  
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	73	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	48					48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

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

	0°	45°	90°
0°	15126	15126	15126
5°	15103	14620	14515
10°	15065	14168	12649
15°	15028	12031	8906
20°	14998	9038	7530
25°	14930	8219	2924
30°	14896	5444	1246
35°	14777	2319	275
40°	14649	1023	196
45°	14462	245	91
50°	14073	151	49
55°	13768	96	50
60°	13158	87	52
65°	12347	90	55
70°	11176	96	59
75°	9278	111	65
80°	6719	129	60
85°	2271	138	73



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	946.6	9.1
10°-20°	2259.4	21.8
20°-30°	2470.4	23.8
30°-40°	1787.8	17.2
40°-50°	1334.2	12.9
50°-60°	779.1	7.5
60°-70°	484.3	4.7
70°-80°	252.6	2.4
80°-90°	50.5	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°	5676.4	54.8
0°-40°	7464.3	72.0
0°-60°	9577.6	92.4
0°-90°	10365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10365.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10305	10305	10305	10305	10305	
5°	10262	10224	9997	9966	9945	975
15°	9923	9574	8100	6334	6032	2802
25°	9272	7871	5278	2752	1897	4277
35°	8319	5074	1372	297	165	5201
45°	7054	3316	128	88	49	5416
55°	5476	642	42	49	23	4876
65°	3650	54	31	29	20	3609
75°	1712	32	26	21	16	1835
85°	154	21	16	15	10	292
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10305.3	10305.3	10305.3	10305.3	10305.3
2.5°	10289.1	10302.1	10240.5	10240.5	10222.6
5°	10261.5	10224.3	9997.2	9966.4	9945.3
7.5°	10201.5	10055.6	9833.4	9792.9	9723.2
10°	10130.2	9874.0	9650.2	9072.9	8649.7
12.5°	10029.7	9723.2	9089.1	7658.9	7071.8
15°	9922.6	9574.0	8099.9	6334.0	6032.4
17.5°	9796.1	9376.1	6814.0	5808.6	5678.9
20°	9645.3	9055.1	5967.5	5447.0	5012.4
22.5°	9468.6	8557.2	5584.8	4527.5	3355.1
25°	9272.4	7871.3	5278.3	2751.9	1897.3
27.5°	9066.4	7060.5	4671.9	1671.9	1295.7
30°	8852.4	6227.0	3371.3	1198.4	781.6
32.5°	8578.3	5545.9	2044.9	674.6	348.6
35°	8318.9	5074.0	1371.9	296.8	165.4
37.5°	8018.9	4748.1	1002.2	157.3	116.8
40°	7725.4	4430.2	572.4	118.4	111.9
42.5°	7355.6	4034.6	241.6	111.9	79.5
45°	7054.0	3316.2	128.1	87.6	48.6
47.5°	6655.1	2270.3	85.9	68.1	30.8
50°	6254.5	1402.7	73.0	53.5	24.3
52.5°	5873.5	929.2	53.5	50.3	22.7
55°	5476.2	642.2	42.2	48.6	22.7
57.5°	5035.1	316.2	35.7	47.0	21.1
60°	4579.4	123.2	34.1	45.4	21.1
62.5°	4128.6	68.1	32.4	37.3	19.5
65°	3650.2	53.5	30.8	29.2	19.5
67.5°	3176.7	43.8	29.2	27.6	19.5
70°	2693.5	38.9	27.6	24.3	17.8
72.5°	2200.5	35.7	25.9	24.3	16.2
75°	1712.4	32.4	25.9	21.1	16.2
77.5°	1281.1	30.8	24.3	21.1	13.0
80°	851.3	27.6	22.7	17.8	11.4
82.5°	470.3	25.9	19.5	16.2	11.4
85°	154.1	21.1	16.2	14.6	9.7
87.5°	24.3	14.6	13.0	13.0	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)