

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-LD5-32-W-CL-UNV-L840-CD4-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 (P34177)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-32-W-CL-UNV-L840-CD4-U  
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

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

**Summary**

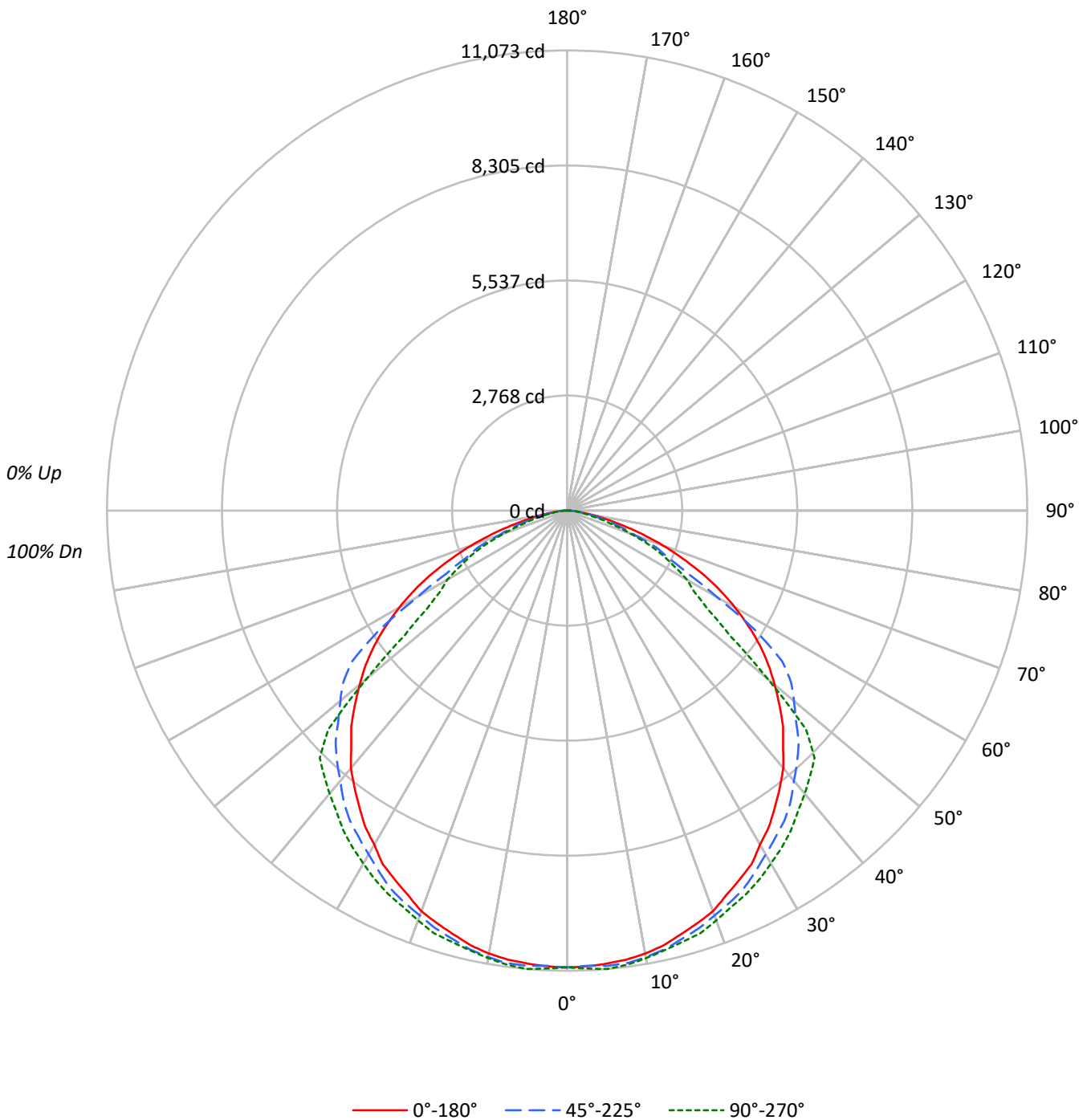
Lumens per Lamp: N/A  
Luminaire Lumens: 29769.0 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 253.2  
Input Voltage (V):  
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	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	110	105	102	98	107	103	100	96	99	96	93		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66		75	70	65		72	68	64	62
4	84	73	64	58	82	72	64	58	69	62	57		67	61	56		65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	41
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38	32	28	26

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

	0°	45°	90°
0°	16135	16135	16135
5°	16106	16082	16161
10°	16095	16021	15990
15°	15991	15849	15860
20°	15951	15707	15762
25°	15783	15639	15693
30°	15620	15430	15636
35°	15480	15401	15632
40°	15344	15174	15611
45°	15058	15057	15757
50°	14663	14759	12744
55°	14235	14394	9117
60°	13414	10636	8233
65°	12126	7809	7156
70°	10176	6137	5379
75°	7542	4555	3590
80°	4910	3205	2244
85°	2573	1939	1677



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1047.5	3.5
10°-20°	3020.1	10.1
20°-30°	4623.7	15.5
30°-40°	5691.4	19.1
40°-50°	6032.1	20.3
50°-60°	4844.6	16.3
60°-70°	3010.9	10.1
70°-80°	1239.1	4.2
80°-90°	259.6	0.9
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°	8691.3	29.2
0°-40°	14382.6	48.3
0°-60°	25259.4	84.9
0°-90°	29769.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29769.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10993	10993	10993	10993	10993	
5°	10943	10970	10997	11055	11073	###
15°	10558	10706	10670	10742	10742	2984
25°	9802	9905	10044	10156	10182	4522
35°	8714	8929	9113	9341	9390	5457
45°	7345	7506	7877	8253	8419	5650
55°	5662	5912	6315	4507	4118	5039
65°	3585	3840	2663	2529	2542	3533
75°	1392	1280	1061	949	891	1526
85°	175	215	228	228	224	249
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10992.6	10992.6	10992.6	10992.6	10992.6
2.5°	10974.7	10988.1	10965.7	11014.9	11028.4
5°	10943.3	10970.2	10997.0	11055.2	11073.1
7.5°	10898.6	10956.8	10988.1	11023.9	11023.9
10°	10822.5	10912.0	10912.0	10925.4	10934.4
12.5°	10715.1	10835.9	10813.5	10822.5	10835.9
15°	10558.4	10706.1	10670.3	10741.9	10741.9
17.5°	10410.7	10536.0	10540.5	10630.0	10661.3
20°	10258.5	10361.5	10370.4	10500.2	10491.3
22.5°	10012.4	10169.0	10213.8	10285.4	10321.2
25°	9802.0	9904.9	10043.7	10155.6	10182.4
27.5°	9600.6	9685.6	9797.5	9990.0	10012.4
30°	9282.8	9461.8	9555.8	9810.9	9806.5
32.5°	9032.2	9193.3	9327.6	9573.7	9609.5
35°	8714.4	8929.2	9112.7	9341.0	9390.2
37.5°	8405.5	8602.5	8830.7	9054.5	9121.7
40°	8092.2	8271.3	8490.6	8759.1	8893.4
42.5°	7689.4	7908.7	8195.2	8504.0	8656.2
45°	7344.8	7505.9	7877.4	8253.4	8419.0
47.5°	6928.5	7138.9	7465.6	7944.5	7792.4
50°	6516.8	6758.5	7125.5	7197.1	6306.4
52.5°	6109.5	6351.2	6794.3	5693.2	4932.3
55°	5661.9	5912.5	6315.4	4507.1	4117.7
57.5°	5174.0	5411.2	5375.4	3741.8	3607.5
60°	4668.3	4901.0	4162.5	3276.3	3334.5
62.5°	4144.6	4395.2	3267.3	2994.3	2904.8
65°	3585.1	3840.2	2663.1	2528.8	2542.3
67.5°	3003.3	3218.1	2336.4	2157.3	2112.6
70°	2452.7	2515.4	1767.9	1718.7	1629.2
72.5°	1902.2	1821.6	1405.4	1298.0	1204.0
75°	1392.0	1280.1	1060.8	948.9	890.7
77.5°	966.8	886.2	765.4	805.6	595.3
80°	622.1	577.4	564.0	447.6	429.7
82.5°	367.0	362.5	349.1	322.3	313.3
85°	174.6	214.8	228.3	228.3	223.8
87.5°	62.7	107.4	143.2	152.2	161.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)