

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: **4ILED-LD5-16-W-CL-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 (P34177)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-16-W-CL-UNV-L850-CD2-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

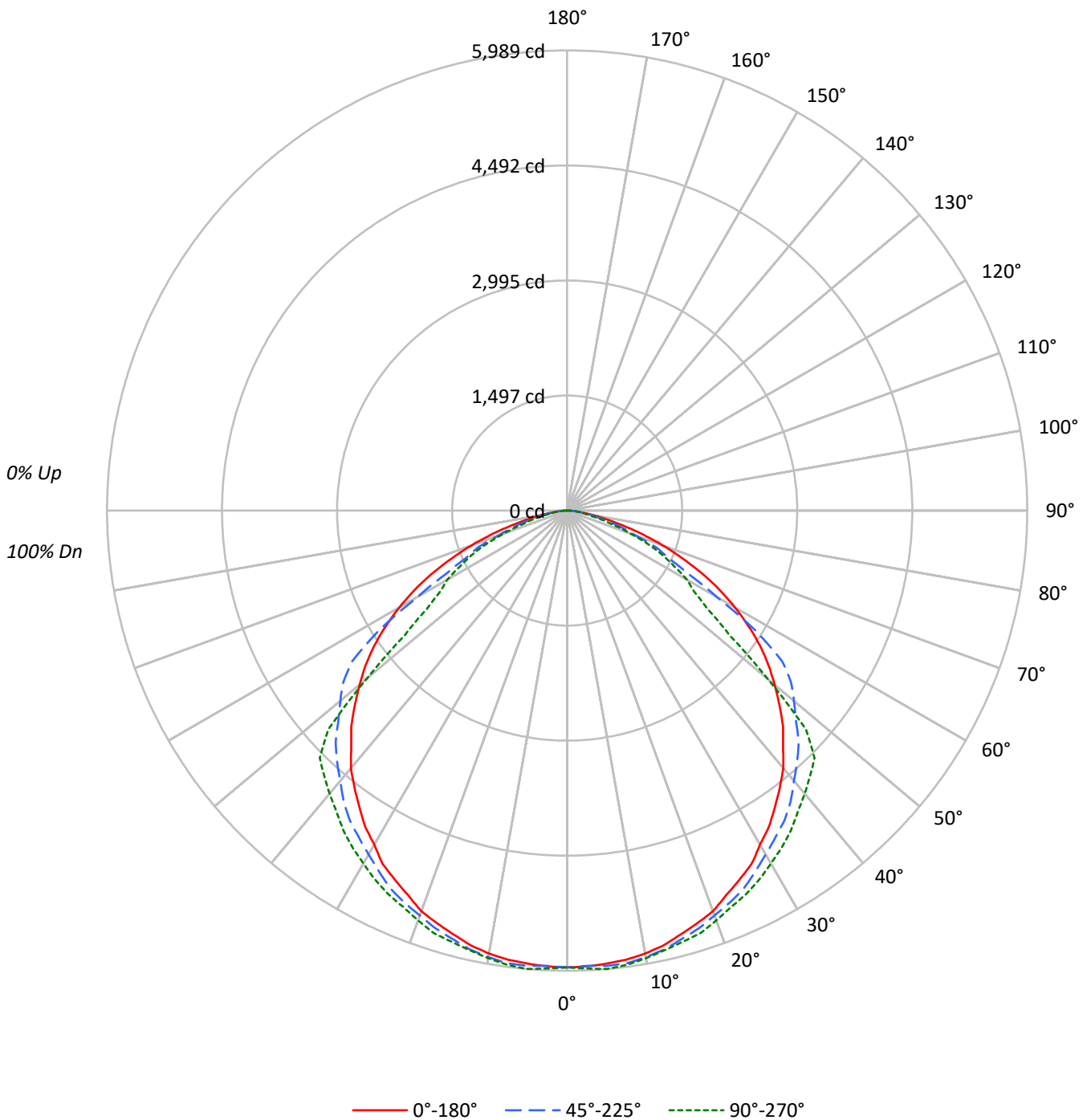
Lumens per Lamp: N/A
Luminaire Lumens: 16101.0 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 126.6
Input Voltage (V):
Input Current (A_{in}): 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	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°	17454	17454	17454
5°	17404	17383	17482
10°	17372	17304	17296
15°	17240	17105	17156
20°	17177	16938	17050
25°	16974	16851	16975
30°	16777	16610	16914
35°	16601	16564	16909
40°	16428	16302	16887
45°	16090	16156	17045
50°	15632	15814	13785
55°	15133	15397	9862
60°	14209	11353	8906
65°	12784	8315	7740
70°	10655	6511	5819
75°	7811	4806	3883
80°	4982	3353	2427
85°	2473	1996	1814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.6	3.5
10°-20°	1633.5	10.1
20°-30°	2500.8	15.5
30°-40°	3078.3	19.1
40°-50°	3262.6	20.3
50°-60°	2620.2	16.3
60°-70°	1628.5	10.1
70°-80°	670.2	4.2
80°-90°	140.4	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°	4700.8	29.2
0°-40°	7779.1	48.3
0°-60°	13661.9	84.9
0°-90°	16101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5946	5946	5946	5946	5946	
5°	5919	5933	5948	5979	5989	563
15°	5711	5791	5771	5810	5810	1614
25°	5302	5357	5432	5493	5507	2446
35°	4713	4830	4929	5052	5079	2951
45°	3972	4060	4261	4464	4554	3056
55°	3062	3198	3416	2438	2227	2725
65°	1939	2077	1440	1368	1375	1911
75°	753	692	574	513	482	826
85°	94	116	124	124	121	135
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5945.5	5945.5	5945.5	5945.5	5945.5
2.5°	5935.8	5943.1	5931.0	5957.6	5964.9
5°	5918.9	5933.4	5947.9	5979.4	5989.1
7.5°	5894.6	5926.1	5943.1	5962.4	5962.4
10°	5853.5	5901.9	5901.9	5909.2	5914.0
12.5°	5795.4	5860.8	5848.7	5853.5	5860.8
15°	5710.7	5790.6	5771.2	5809.9	5809.9
17.5°	5630.8	5698.6	5701.0	5749.4	5766.3
20°	5548.5	5604.2	5609.0	5679.2	5674.4
22.5°	5415.3	5500.1	5524.3	5563.0	5582.4
25°	5301.6	5357.2	5432.3	5492.8	5507.3
27.5°	5192.6	5238.6	5299.1	5403.2	5415.3
30°	5020.7	5117.6	5168.4	5306.4	5304.0
32.5°	4885.2	4972.3	5044.9	5178.1	5197.5
35°	4713.3	4829.5	4928.8	5052.2	5078.8
37.5°	4546.3	4652.8	4776.2	4897.3	4933.6
40°	4376.8	4473.6	4592.3	4737.5	4810.1
42.5°	4158.9	4277.6	4432.5	4599.5	4681.8
45°	3972.5	4059.7	4260.6	4464.0	4553.5
47.5°	3747.4	3861.2	4037.9	4296.9	4214.6
50°	3524.7	3655.4	3853.9	3892.6	3410.9
52.5°	3304.4	3435.1	3674.8	3079.3	2667.7
55°	3062.3	3197.9	3415.7	2437.7	2227.1
57.5°	2798.4	2926.7	2907.4	2023.8	1951.2
60°	2524.9	2650.8	2251.3	1772.0	1803.5
62.5°	2241.7	2377.2	1767.2	1619.5	1571.1
65°	1939.1	2077.0	1440.4	1367.8	1375.0
67.5°	1624.4	1740.6	1263.7	1166.8	1142.6
70°	1326.6	1360.5	956.2	929.6	881.2
72.5°	1028.8	985.3	760.1	702.0	651.2
75°	752.9	692.3	573.7	513.2	481.7
77.5°	522.9	479.3	414.0	435.7	322.0
80°	336.5	312.3	305.0	242.1	232.4
82.5°	198.5	196.1	188.8	174.3	169.5
85°	94.4	116.2	123.5	123.5	121.0
87.5°	33.9	58.1	77.5	82.3	87.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)