

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-LD5-28-W-CL-UNV-L850-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-LD5-28-W-CL-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

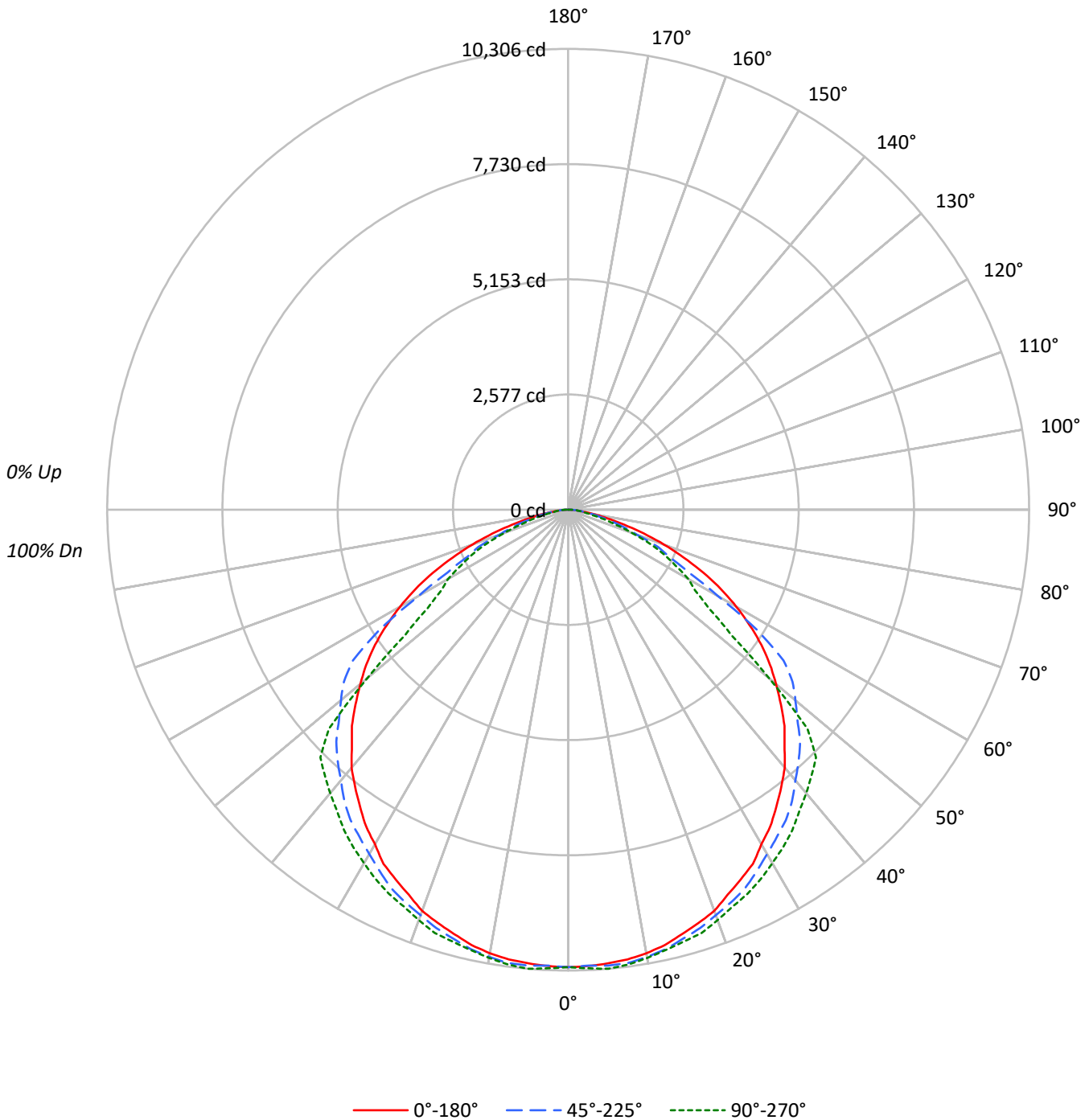
Lumens per Lamp: N/A
Luminaire Lumens: 27707.0 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 204
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	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°	15017	15017	15017
5°	14991	14968	15042
10°	14980	14911	14882
15°	14883	14751	14761
20°	14846	14619	14670
25°	14689	14556	14606
30°	14538	14361	14553
35°	14407	14335	14549
40°	14282	14123	14530
45°	14015	14014	14666
50°	13647	13736	11861
55°	13249	13397	8486
60°	12485	9899	7663
65°	11287	7268	6660
70°	9472	5712	5007
75°	7020	4239	3341
80°	4570	2983	2088
85°	2395	1805	1561



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	975.0	3.5
10°-20°	2810.9	10.1
20°-30°	4303.4	15.5
30°-40°	5297.1	19.1
40°-50°	5614.3	20.3
50°-60°	4509.0	16.3
60°-70°	2802.3	10.1
70°-80°	1153.3	4.2
80°-90°	241.6	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°	8089.3	29.2
0°-40°	13386.4	48.3
0°-60°	23509.7	84.9
0°-90°	27707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27707.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10231	10231	10231	10231	10231	
5°	10185	10210	10235	10290	10306	969
15°	9827	9964	9931	9998	9998	2777
25°	9123	9219	9348	9452	9477	4209
35°	8111	8311	8482	8694	8740	5079
45°	6836	6986	7332	7682	7836	5259
55°	5270	5503	5878	4195	3832	4690
65°	3337	3574	2479	2354	2366	3288
75°	1296	1191	987	883	829	1421
85°	162	200	212	212	208	232
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10231.1	10231.1	10231.1	10231.1	10231.1
2.5°	10214.5	10227.0	10206.1	10252.0	10264.5
5°	10185.3	10210.3	10235.3	10289.5	10306.1
7.5°	10143.7	10197.8	10227.0	10260.3	10260.3
10°	10072.8	10156.2	10156.2	10168.7	10177.0
12.5°	9972.9	10085.3	10064.5	10072.8	10085.3
15°	9827.1	9964.5	9931.2	9997.9	9997.9
17.5°	9689.6	9806.2	9810.4	9893.7	9922.9
20°	9548.0	9643.8	9652.1	9772.9	9764.6
22.5°	9318.8	9464.6	9506.3	9572.9	9606.3
25°	9123.0	9218.9	9348.0	9452.1	9477.1
27.5°	8935.6	9014.7	9118.9	9298.0	9318.8
30°	8639.8	8806.4	8893.9	9131.4	9127.2
32.5°	8406.5	8556.5	8681.5	8910.6	8943.9
35°	8110.8	8310.7	8481.5	8694.0	8739.8
37.5°	7823.3	8006.6	8219.1	8427.4	8489.8
40°	7531.7	7698.4	7902.5	8152.4	8277.4
42.5°	7156.8	7360.9	7627.5	7915.0	8056.6
45°	6836.0	6986.0	7331.8	7681.7	7835.8
47.5°	6448.6	6644.4	6948.5	7394.2	7252.6
50°	6065.4	6290.3	6631.9	6698.6	5869.6
52.5°	5686.3	5911.2	6323.6	5298.9	4590.7
55°	5269.7	5503.0	5877.9	4194.9	3832.5
57.5°	4815.6	5036.4	5003.1	3482.6	3357.6
60°	4344.9	4561.5	3874.2	3049.3	3103.5
62.5°	3857.5	4090.8	3041.0	2786.9	2703.6
65°	3336.8	3574.2	2478.6	2353.7	2366.2
67.5°	2795.2	2995.2	2174.5	2007.9	1966.2
70°	2282.8	2341.2	1645.5	1599.7	1516.3
72.5°	1770.5	1695.5	1308.1	1208.1	1120.6
75°	1295.6	1191.4	987.3	883.1	829.0
77.5°	899.8	824.8	712.3	749.8	554.0
80°	579.0	537.4	524.9	416.6	399.9
82.5°	341.6	337.4	324.9	299.9	291.6
85°	162.5	200.0	212.5	212.5	208.3
87.5°	58.3	100.0	133.3	141.6	150.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)