

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-TWB-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 (P34175)
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-TWB-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

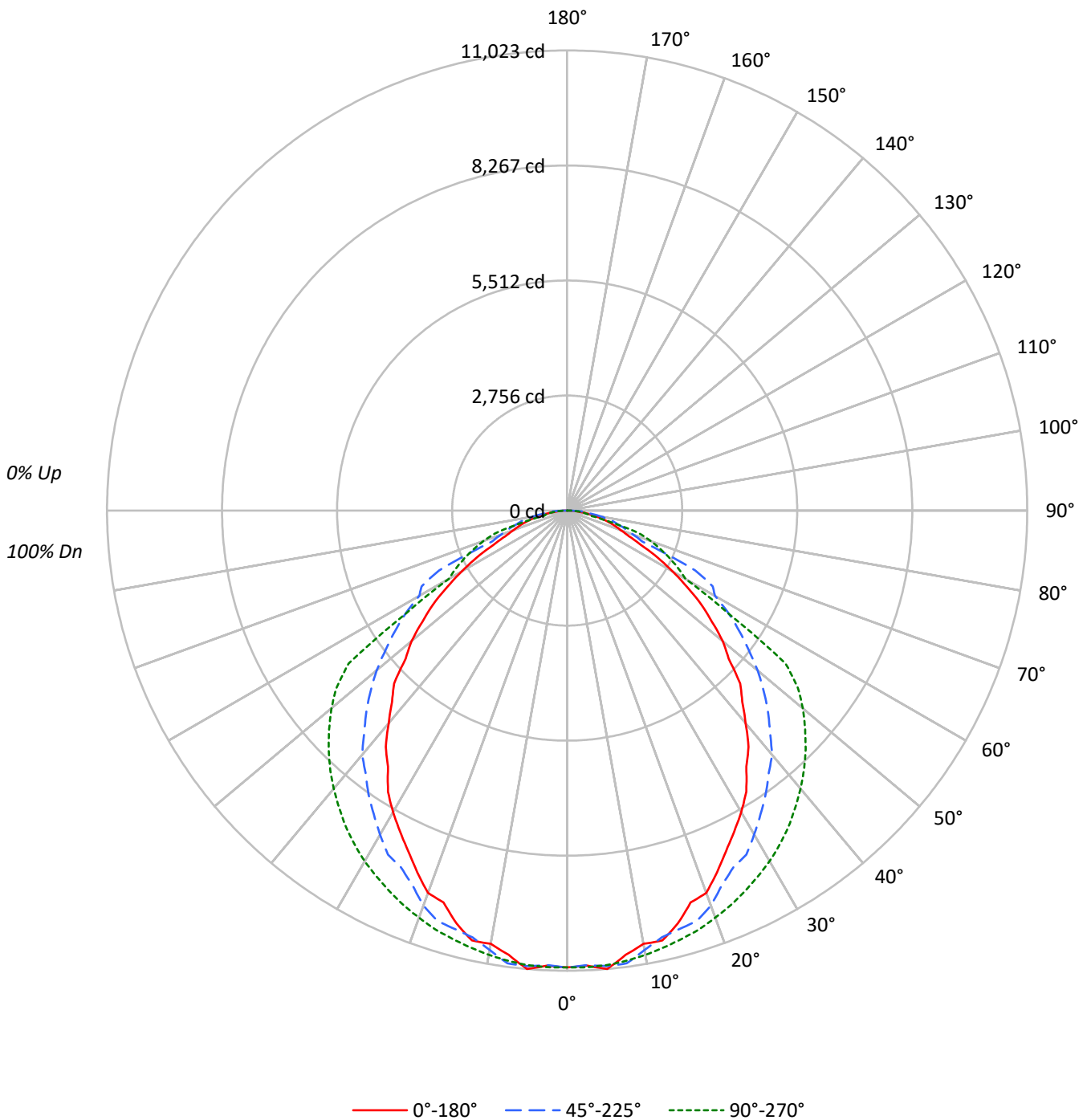
Lumens per Lamp: N/A
Luminaire Lumens: 27599.0 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	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	50	60	54	49	58	53	49	47
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16064	16064	16064
5°	16224	16017	15948
10°	15675	15689	15803
15°	15509	15414	15678
20°	15158	15251	15591
25°	14496	14673	15512
30°	14034	14470	15464
35°	13291	14019	15389
40°	12616	13647	15270
45°	12017	13004	15119
50°	10948	12339	14892
55°	9856	11489	14140
60°	8379	10442	8085
65°	6609	9932	7645
70°	5652	5857	7029
75°	5395	5330	4433
80°	4932	4710	2610
85°	3929	3539	2217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1036.7	3.8
10°-20°	2943.5	10.7
20°-30°	4393.6	15.9
30°-40°	5229.7	18.9
40°-50°	5287.7	19.2
50°-60°	4455.1	16.1
60°-70°	2574.3	9.3
70°-80°	1270.7	4.6
80°-90°	407.6	1.5
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°	8373.8	30.3
0°-40°	13603.5	49.3
0°-60°	23346.4	84.6
0°-90°	27599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27599.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10944	10944	10944	10944	10944	
5°	11023	11048	10952	10898	10927	###
15°	10240	10398	10378	10657	10619	2875
25°	9003	9169	9424	9882	10065	4157
35°	7482	7786	8294	8998	9244	4707
45°	5862	6041	6803	7620	8078	4448
55°	3920	4228	5041	6012	6386	3480
65°	1954	2383	3387	2545	2716	2011
75°	996	1225	1242	1366	1100	1047
85°	267	329	417	496	296	306
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10944.0	10944.0	10944.0	10944.0	10944.0
2.5°	10910.7	10923.2	10898.2	10960.7	10948.2
5°	11023.2	11048.2	10952.4	10898.2	10927.4
7.5°	10735.7	10789.9	10939.9	10869.0	10877.4
10°	10539.9	10548.3	10685.7	10906.5	10806.6
12.5°	10548.3	10531.6	10469.1	10848.2	10719.1
15°	10240.0	10398.3	10377.5	10656.6	10619.1
17.5°	9844.2	9998.4	10310.8	10464.9	10519.1
20°	9748.4	9694.2	10069.2	10219.2	10377.5
22.5°	9377.6	9594.3	9698.4	10031.7	10235.8
25°	9002.7	9169.3	9423.5	9881.7	10065.0
27.5°	8665.2	8844.4	9294.3	9740.1	9885.9
30°	8340.3	8506.9	8961.0	9560.9	9698.4
32.5°	7986.2	8194.5	8623.6	9344.3	9481.8
35°	7482.1	7786.2	8294.5	8998.5	9244.3
37.5°	7136.3	7336.3	7932.0	8631.9	8973.5
40°	6653.1	6973.9	7636.2	8348.6	8698.6
42.5°	6207.3	6523.9	7190.5	7994.5	8402.8
45°	5861.5	6040.7	6803.0	7619.6	8077.8
47.5°	5245.0	5699.1	6382.3	7219.6	7732.1
50°	4865.9	5178.3	5957.4	6836.4	7369.6
52.5°	4374.3	4724.2	5478.3	6411.4	6965.5
55°	3920.2	4228.5	5040.8	6011.5	6386.4
57.5°	3403.6	3799.4	4586.7	5557.4	4557.6
60°	2916.2	3312.0	4086.8	3753.5	3274.5
62.5°	2449.6	2799.5	3932.7	2824.5	3003.7
65°	1953.8	2382.9	3386.9	2545.4	2716.2
67.5°	1603.9	1903.9	1953.8	2278.8	2428.8
70°	1362.3	1508.1	1687.2	2020.5	2128.8
72.5°	1183.1	1245.6	1466.4	1795.5	1812.2
75°	995.7	1224.8	1241.5	1366.4	1099.8
77.5°	795.7	987.3	1074.8	795.7	562.4
80°	624.9	670.7	829.0	699.9	499.9
82.5°	433.3	495.8	574.9	604.1	412.4
85°	266.6	329.1	416.6	495.8	295.8
87.5°	112.5	179.1	287.5	383.3	162.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)