

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-LD5-7-N-TWB-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: 4ILED-LD5-7-N-TWB-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

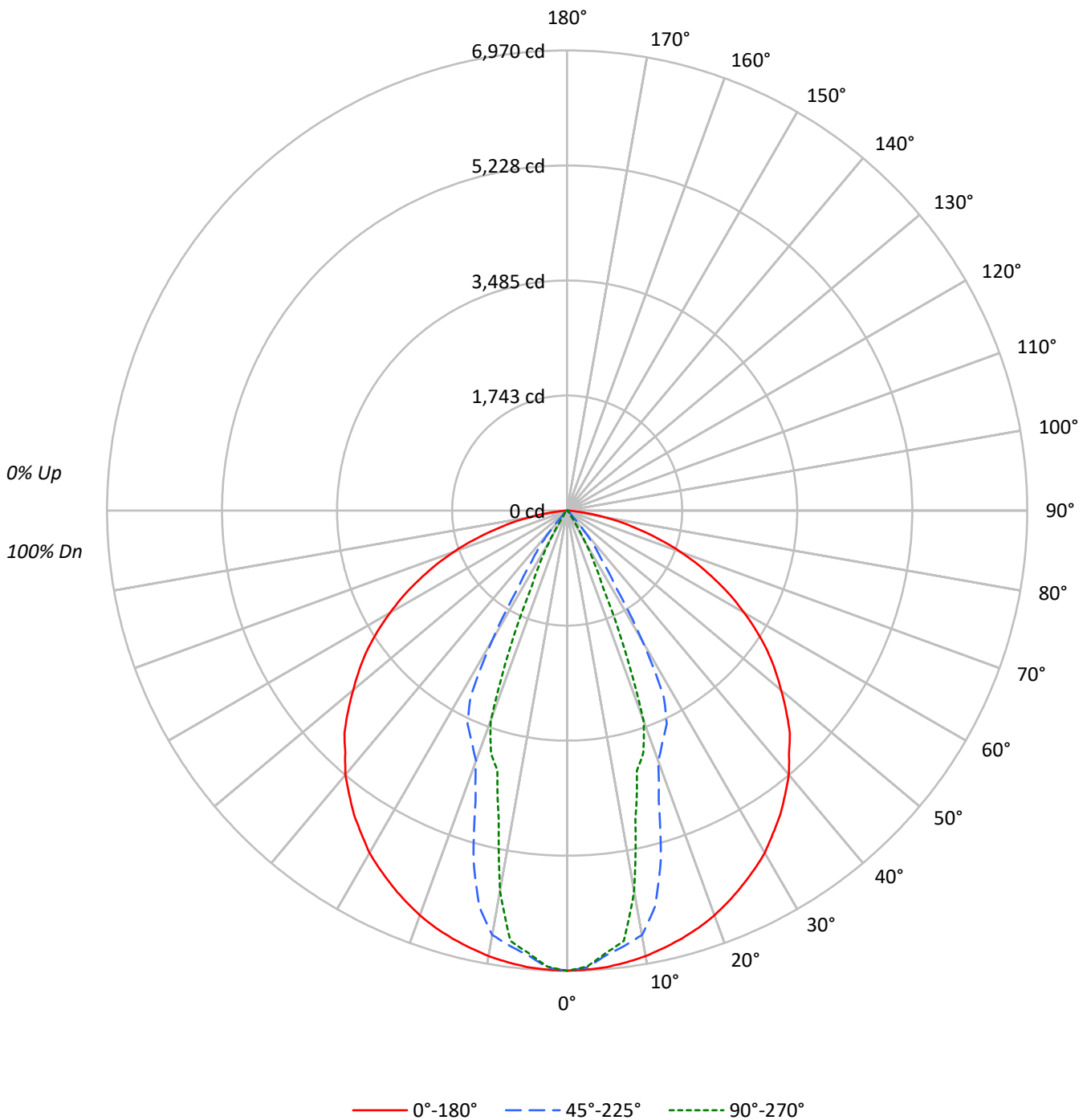
Lumens per Lamp: N/A
Luminaire Lumens: 7010.0 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 50.4
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	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86		90	87	84		87	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77		83	79	76		81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70		77	72	69		75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63		72	67	63		70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53		62	57	53		61	56	53	51
8	73	62	55	50	71	61	54	50	60	54	50		59	53	49		58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46		55	50	46		54	49	46	44
10	65	54	48	43	64	54	48	43	53	47	43		52	47	43		51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20460	20460	20460
5°	20406	19760	19634
10°	20333	19135	17109
15°	20260	16236	12047
20°	20195	12188	10186
25°	20078	11073	3955
30°	20006	7328	1686
35°	19816	3118	373
40°	19611	1374	266
45°	19323	328	123
50°	18759	203	67
55°	18302	128	68
60°	17429	116	71
65°	16276	120	74
70°	14630	127	80
75°	12015	147	89
80°	8525	169	80
85°	2730	178	99



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.2	9.1
10°-20°	1528.1	21.8
20°-30°	1670.8	23.8
30°-40°	1209.1	17.2
40°-50°	902.4	12.9
50°-60°	526.9	7.5
60°-70°	327.6	4.7
70°-80°	170.8	2.4
80°-90°	34.2	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°	3839.1	54.8
0°-40°	5048.2	72.0
0°-60°	6477.5	92.4
0°-90°	7010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6970	6970	6970	6970	6970	
5°	6940	6915	6761	6740	6726	659
15°	6711	6475	5478	4284	4080	1895
25°	6271	5324	3570	1861	1283	2893
35°	5626	3432	928	201	112	3518
45°	4771	2243	87	59	33	3663
55°	3704	434	28	33	15	3297
65°	2469	36	21	20	13	2441
75°	1158	22	18	14	11	1241
85°	104	14	11	10	7	197
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6969.6	6969.6	6969.6	6969.6	6969.6
2.5°	6958.7	6967.5	6925.8	6925.8	6913.7
5°	6940.0	6914.8	6761.3	6740.4	6726.2
7.5°	6899.5	6800.8	6650.5	6623.1	6575.9
10°	6851.2	6677.9	6526.6	6136.1	5849.9
12.5°	6783.2	6575.9	6147.1	5179.8	4782.8
15°	6710.8	6475.0	5478.1	4283.8	4079.8
17.5°	6625.3	6341.2	4608.4	3928.4	3840.7
20°	6523.3	6124.1	4035.9	3683.9	3390.0
22.5°	6403.7	5787.4	3777.1	3062.0	2269.1
25°	6271.0	5323.5	3569.8	1861.1	1283.2
27.5°	6131.8	4775.1	3159.6	1130.7	876.3
30°	5987.0	4211.4	2280.1	810.5	528.6
32.5°	5801.6	3750.8	1383.0	456.2	235.8
35°	5626.2	3431.6	927.8	200.7	111.9
37.5°	5423.3	3211.2	677.8	106.4	79.0
40°	5224.8	2996.2	387.1	80.1	75.7
42.5°	4974.7	2728.6	163.4	75.7	53.7
45°	4770.7	2242.8	86.6	59.2	32.9
47.5°	4500.9	1535.4	58.1	46.1	20.8
50°	4230.0	948.7	49.4	36.2	16.5
52.5°	3972.3	628.4	36.2	34.0	15.4
55°	3703.6	434.3	28.5	32.9	15.4
57.5°	3405.3	213.9	24.1	31.8	14.3
60°	3097.1	83.4	23.0	30.7	14.3
62.5°	2792.2	46.1	21.9	25.2	13.2
65°	2468.7	36.2	20.8	19.7	13.2
67.5°	2148.5	29.6	19.7	18.6	13.2
70°	1821.6	26.3	18.6	16.5	12.1
72.5°	1488.2	24.1	17.5	16.5	11.0
75°	1158.1	21.9	17.5	14.3	11.0
77.5°	866.4	20.8	16.5	14.3	8.8
80°	575.8	18.6	15.4	12.1	7.7
82.5°	318.0	17.5	13.2	11.0	7.7
85°	104.2	14.3	11.0	9.9	6.6
87.5°	16.5	9.9	8.8	8.8	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)