

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-LD5-5-N-TWBWG-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 (P34186)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-5-N-TWBWG-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD
DISTRIBUTION

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

Summary

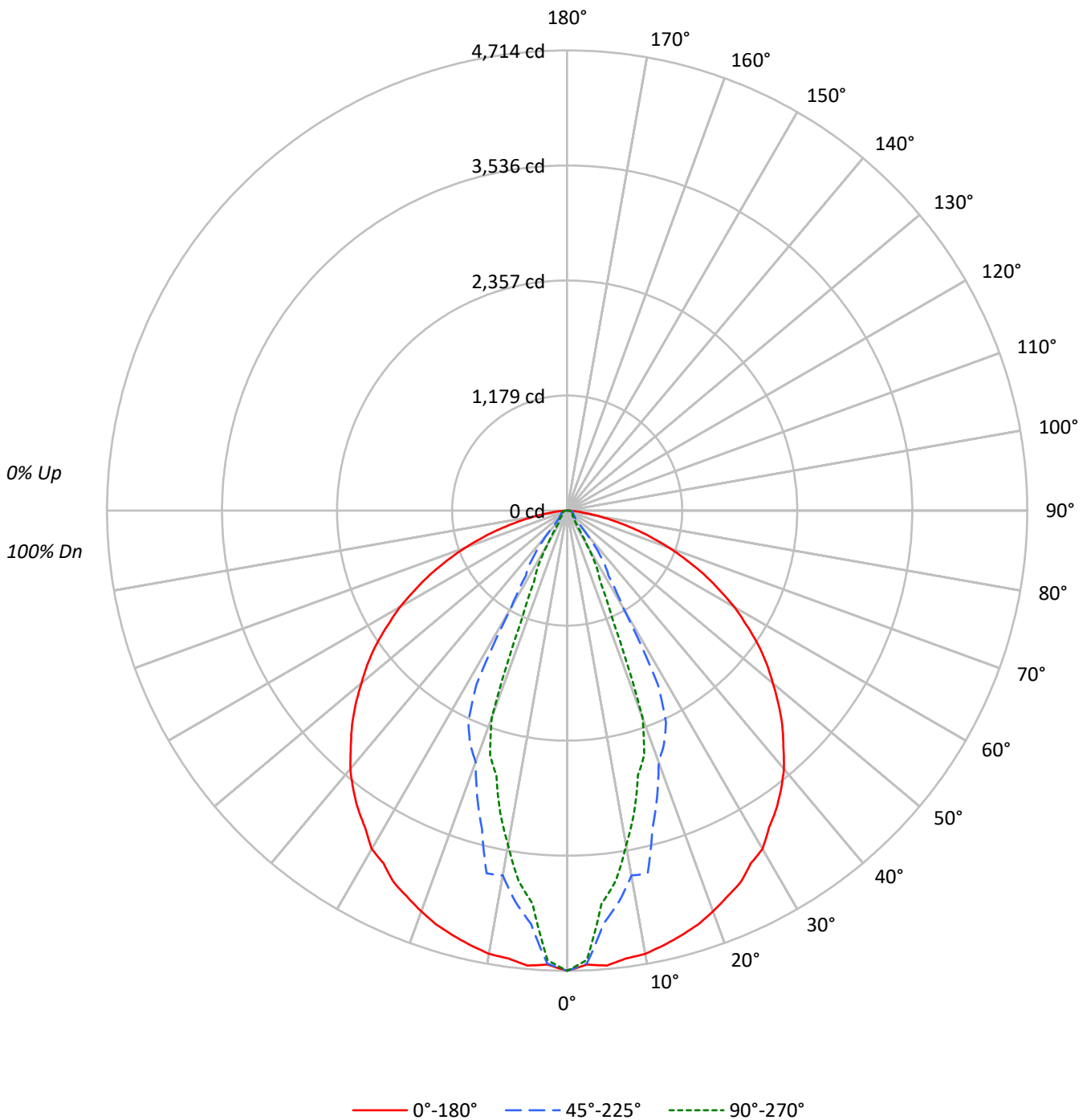
Lumens per Lamp: N/A
Luminaire Lumens: 4680.0 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 33.5
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	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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71				71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64				64
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59				59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54				54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49				49
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46				46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43				43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40				40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13838	13838	13838
5°	13756	12425	11811
10°	13682	11130	10192
15°	13607	10003	8282
20°	13524	8274	6785
25°	13459	7432	2468
30°	13376	3701	1287
35°	13155	2238	490
40°	12970	1119	427
45°	12628	485	316
50°	12199	410	288
55°	11779	342	302
60°	11144	356	294
65°	10190	384	301
70°	8894	401	312
75°	7111	442	343
80°	4793	519	380
85°	2557	613	477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.6	8.6
10°-20°	976.1	20.9
20°-30°	1063.4	22.7
30°-40°	818.0	17.5
40°-50°	604.4	12.9
50°-60°	380.3	8.1
60°-70°	249.0	5.3
70°-80°	139.4	3.0
80°-90°	46.7	1.0
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°	2442.2	52.2
0°-40°	3260.2	69.7
0°-60°	4244.9	90.7
0°-90°	4680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4714	4714	4714	4714	4714	
5°	4678	4642	4252	4001	4046	443
15°	4507	3918	3375	2930	2805	1273
25°	4204	3141	2396	1067	801	1932
35°	3735	2315	666	212	147	2336
45°	3118	1233	128	108	84	2401
55°	2384	316	76	80	68	2124
65°	1546	78	67	60	53	1524
75°	685	59	53	47	43	735
85°	98	37	38	36	32	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4713.9	4713.9	4713.9	4713.9	4713.9
2.5°	4655.8	4657.3	4645.7	4622.5	4607.8
5°	4678.2	4641.8	4251.5	4000.6	4046.3
7.5°	4627.1	4438.9	4046.3	3858.9	3822.5
10°	4610.1	4127.6	3796.2	3732.7	3484.9
12.5°	4561.3	3938.7	3807.8	3407.4	3169.7
15°	4507.1	3918.5	3374.9	2929.6	2804.9
17.5°	4448.2	3742.0	3066.7	2684.9	2625.3
20°	4368.5	3628.9	2739.9	2468.1	2258.2
22.5°	4282.5	3574.7	2592.0	1608.5	1246.8
25°	4203.5	3141.0	2396.0	1067.1	800.7
27.5°	4073.4	3106.2	2012.7	781.4	660.6
30°	4002.9	2784.0	1151.6	587.8	403.5
32.5°	3850.4	2531.6	788.4	357.0	240.8
35°	3735.0	2314.7	666.0	212.2	147.1
37.5°	3599.5	2171.5	497.9	145.6	127.8
40°	3455.4	2002.6	315.2	130.1	121.6
42.5°	3280.4	1803.6	186.6	122.4	104.5
45°	3117.8	1232.9	127.8	107.6	84.4
47.5°	2938.1	841.0	109.2	91.4	72.8
50°	2750.7	549.8	99.9	81.3	71.2
52.5°	2574.9	450.7	86.7	81.3	71.2
55°	2383.6	316.0	75.9	79.8	68.1
57.5°	2173.8	196.7	71.2	77.4	65.8
60°	1980.2	116.2	70.5	75.1	59.6
62.5°	1754.0	88.3	68.9	66.6	56.5
65°	1545.7	78.2	66.6	59.6	53.4
67.5°	1321.9	70.5	62.0	57.3	51.9
70°	1107.4	63.5	58.9	53.4	47.2
72.5°	892.1	61.2	55.8	50.3	44.9
75°	685.4	58.9	52.7	47.2	42.6
77.5°	498.7	55.0	49.6	45.7	40.3
80°	323.7	50.3	47.2	42.6	36.4
82.5°	180.4	45.7	43.4	39.5	34.8
85°	97.6	37.2	37.9	36.4	31.8
87.5°	17.8	26.3	32.5	31.8	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)