

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-WG-UNV-L840-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-WG-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

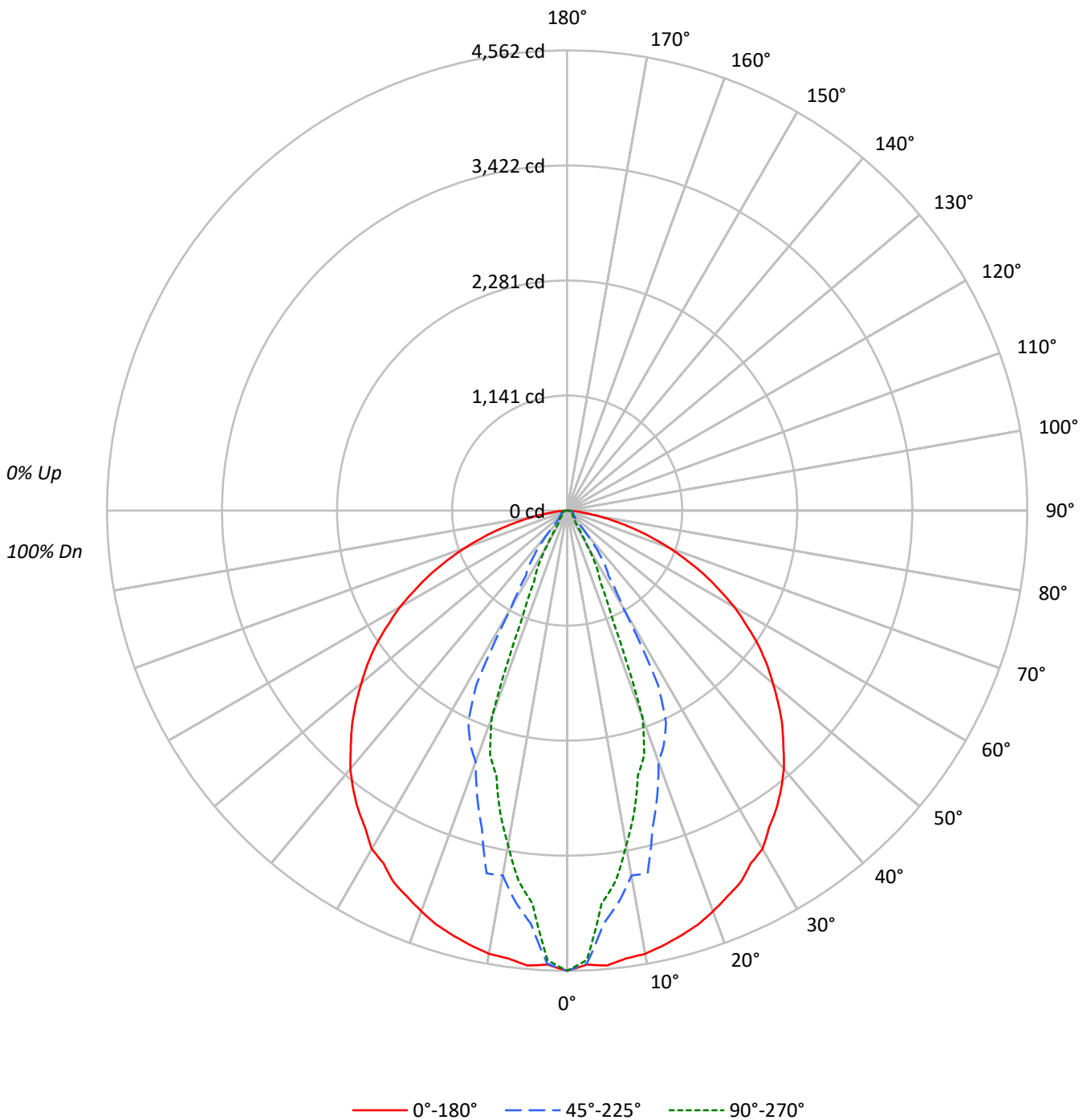
Lumens per Lamp: N/A
Luminaire Lumens: 4529.0 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V):
Input Current (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	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°	13392	13392	13392
5°	13312	12025	11430
10°	13240	10771	9863
15°	13168	9680	8015
20°	13088	8007	6566
25°	13024	7192	2388
30°	12944	3581	1245
35°	12731	2166	474
40°	12551	1083	413
45°	12221	469	306
50°	11806	397	278
55°	11399	331	292
60°	10784	344	285
65°	9862	372	291
70°	8607	388	302
75°	6880	427	332
80°	4639	502	368
85°	2473	593	460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.7	8.6
10°-20°	944.6	20.9
20°-30°	1029.1	22.7
30°-40°	791.6	17.5
40°-50°	584.9	12.9
50°-60°	368.0	8.1
60°-70°	241.0	5.3
70°-80°	134.9	3.0
80°-90°	45.2	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°	2363.4	52.2
0°-40°	3155.0	69.7
0°-60°	4107.9	90.7
0°-90°	4529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4562	4562	4562	4562	4562	
5°	4527	4492	4114	3872	3916	429
15°	4362	3792	3266	2835	2714	1232
25°	4068	3040	2319	1033	775	1870
35°	3614	2240	644	205	142	2260
45°	3017	1193	124	104	82	2324
55°	2307	306	73	77	66	2055
65°	1496	76	64	58	52	1475
75°	663	57	51	46	41	712
85°	94	36	37	35	31	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4561.8	4561.8	4561.8	4561.8	4561.8
2.5°	4505.6	4507.1	4495.8	4473.3	4459.1
5°	4527.3	4492.1	4114.4	3871.5	3915.8
7.5°	4477.8	4295.7	3915.8	3734.4	3699.2
10°	4461.3	3994.4	3673.7	3612.2	3372.4
12.5°	4414.1	3811.6	3684.9	3297.5	3067.4
15°	4361.7	3792.1	3266.0	2835.1	2714.4
17.5°	4304.7	3621.2	2967.7	2598.3	2540.6
20°	4227.5	3511.8	2651.5	2388.4	2185.3
22.5°	4144.3	3459.4	2508.3	1556.6	1206.6
25°	4067.9	3039.7	2318.7	1032.7	774.9
27.5°	3942.0	3006.0	1947.8	756.2	639.3
30°	3873.8	2694.2	1114.4	568.8	390.5
32.5°	3726.2	2449.9	762.9	345.5	233.1
35°	3614.5	2240.0	644.5	205.3	142.4
37.5°	3483.3	2101.4	481.9	140.9	123.7
40°	3343.9	1938.0	305.0	125.9	117.7
42.5°	3174.6	1745.4	180.6	118.4	101.2
45°	3017.2	1193.1	123.7	104.2	81.7
47.5°	2843.3	813.9	105.7	88.4	70.4
50°	2662.0	532.1	96.7	78.7	68.9
52.5°	2491.8	436.2	83.9	78.7	68.9
55°	2306.7	305.8	73.4	77.2	65.9
57.5°	2103.6	190.4	68.9	74.9	63.7
60°	1916.3	112.4	68.2	72.7	57.7
62.5°	1697.5	85.4	66.7	64.5	54.7
65°	1495.9	75.7	64.5	57.7	51.7
67.5°	1279.3	68.2	60.0	55.5	50.2
70°	1071.7	61.5	57.0	51.7	45.7
72.5°	863.3	59.2	54.0	48.7	43.5
75°	663.2	57.0	51.0	45.7	41.2
77.5°	482.6	53.2	48.0	44.2	39.0
80°	313.3	48.7	45.7	41.2	35.2
82.5°	174.6	44.2	42.0	38.2	33.7
85°	94.4	36.0	36.7	35.2	30.7
87.5°	17.2	25.5	31.5	30.7	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)