

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-LD5-16-W-FLWG-UNV-L835-CD2-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 (P34182)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-16-W-FLWG-UNV-L835-CD2-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

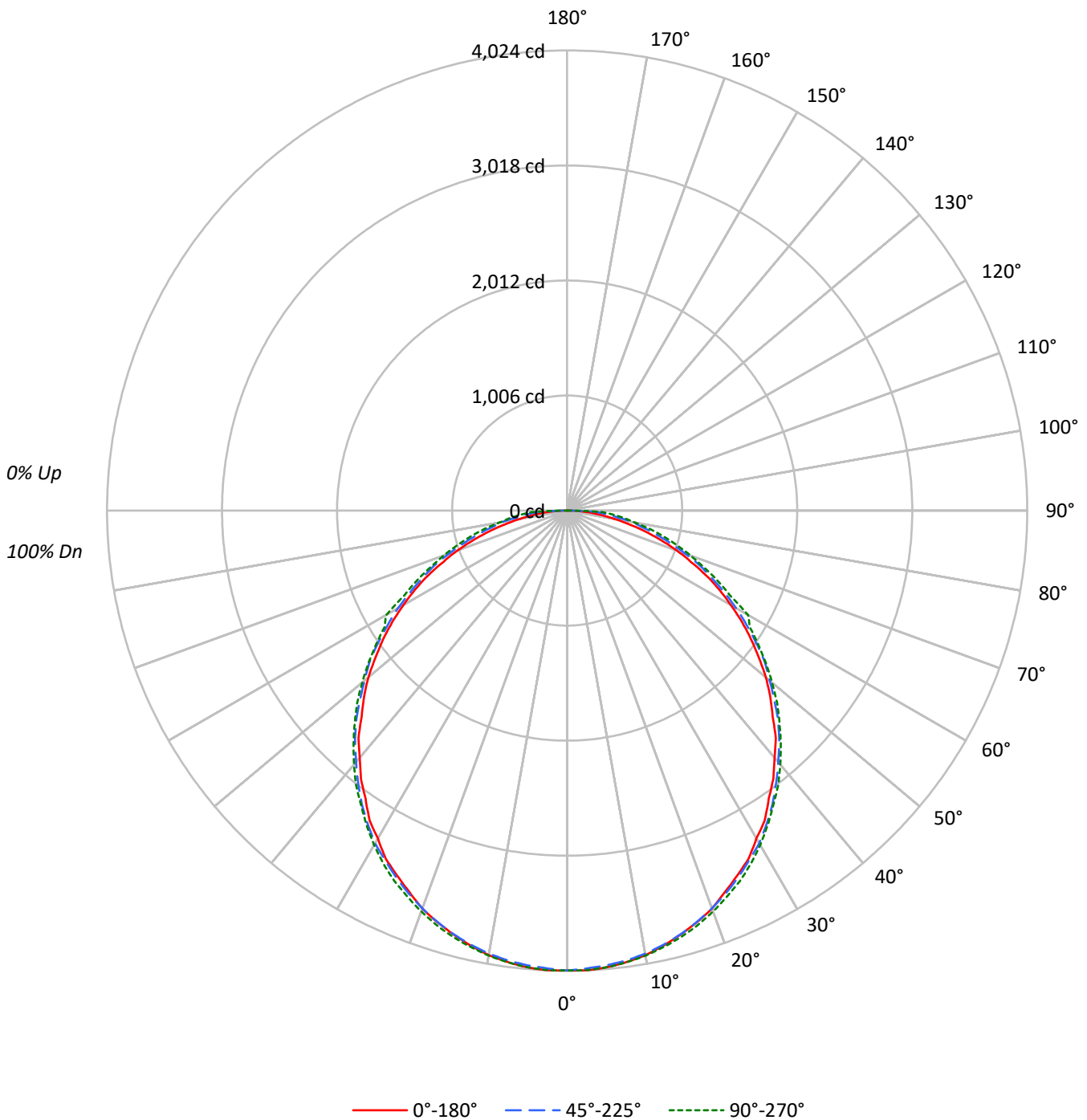
Lumens per Lamp: N/A
Luminaire Lumens: 11438.0 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 126.6
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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11807	11807	11807
5°	11788	11665	11702
10°	11715	11535	11558
15°	11586	11368	11397
20°	11467	11178	11208
25°	11269	10979	11018
30°	11064	10797	10769
35°	10828	10523	10462
40°	10591	10196	10176
45°	10292	9902	9832
50°	10062	9490	9454
55°	9705	9100	9027
60°	9311	8609	9026
65°	8853	8056	8177
70°	8195	7470	7564
75°	7375	6747	7022
80°	6238	6345	6256
85°	5059	5391	5954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.3	3.3
10°-20°	1084.7	9.5
20°-30°	1633.6	14.3
30°-40°	1953.6	17.1
40°-50°	2006.3	17.5
50°-60°	1801.7	15.8
60°-70°	1386.3	12.1
70°-80°	854.5	7.5
80°-90°	337.0	2.9
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°	3098.6	27.1
0°-40°	5052.2	44.2
0°-60°	8860.2	77.5
0°-90°	11438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11438.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4022	4022	4022	4022	4022	
5°	4009	4007	3991	4007	4009	381
15°	3838	3844	3836	3851	3860	1083
25°	3520	3524	3539	3566	3574	1623
35°	3074	3118	3131	3142	3142	1928
45°	2541	2580	2611	2622	2626	1968
55°	1964	1990	2019	2041	2038	1756
65°	1343	1356	1396	1444	1453	1324
75°	711	748	805	858	871	751
85°	193	257	334	382	397	221
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4022.1	4022.1	4022.1	4022.1	4022.1
2.5°	4024.3	4022.1	4006.7	4017.7	4022.1
5°	4008.9	4006.7	3991.4	4006.7	4008.9
7.5°	3982.6	3982.6	3967.2	3982.6	3984.8
10°	3947.5	3947.5	3934.3	3947.5	3951.9
12.5°	3897.0	3901.4	3888.3	3903.6	3908.0
15°	3837.8	3844.4	3835.6	3851.0	3859.7
17.5°	3774.2	3776.3	3772.0	3791.7	3800.5
20°	3703.9	3701.7	3701.7	3728.1	3730.3
22.5°	3609.6	3620.6	3622.7	3651.3	3653.5
25°	3519.6	3524.0	3539.4	3565.7	3574.5
27.5°	3434.0	3431.8	3447.2	3471.3	3480.1
30°	3311.2	3333.1	3359.4	3368.2	3377.0
32.5°	3214.6	3221.2	3247.5	3256.3	3262.9
35°	3074.2	3118.1	3131.2	3142.2	3142.2
37.5°	2960.1	2984.2	3001.8	3021.5	3030.3
40°	2821.8	2852.6	2872.3	2892.1	2898.6
42.5°	2701.2	2720.9	2745.0	2760.4	2764.8
45°	2541.0	2580.5	2611.2	2622.2	2626.5
47.5°	2409.3	2453.2	2457.6	2483.9	2490.5
50°	2268.9	2301.8	2312.8	2343.5	2339.1
52.5°	2113.1	2152.6	2178.9	2187.7	2189.9
55°	1963.9	1990.2	2018.7	2040.7	2038.5
57.5°	1812.5	1834.4	1858.6	1891.5	1893.7
60°	1654.5	1680.8	1707.1	1740.1	1827.8
62.5°	1500.9	1516.2	1547.0	1610.6	1604.0
65°	1342.9	1356.1	1395.6	1443.8	1452.6
67.5°	1171.7	1198.1	1257.3	1288.0	1292.4
70°	1020.3	1044.5	1097.1	1136.6	1145.4
72.5°	860.2	888.7	945.7	996.2	1009.4
75°	710.9	748.2	805.3	858.0	871.1
77.5°	557.3	605.6	673.6	800.9	739.5
80°	421.3	476.2	577.1	592.5	599.0
82.5°	300.6	359.9	432.3	484.9	502.5
85°	193.1	256.7	333.5	381.8	397.2
87.5°	107.5	169.0	250.1	298.4	311.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)