

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-L850-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-L850-CD2-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

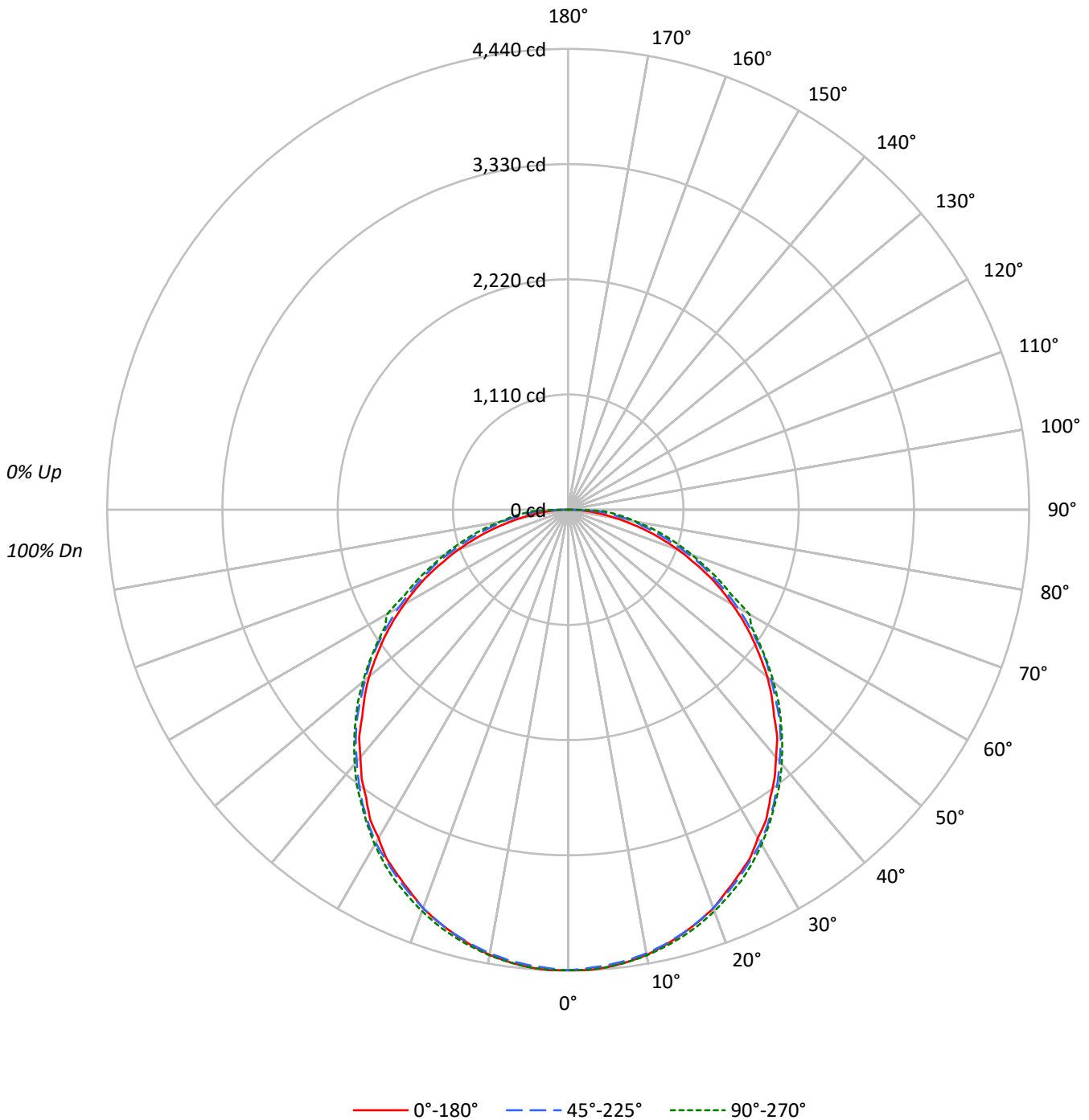
Lumens per Lamp: N/A
Luminaire Lumens: 12620.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13027	13027	13027
5°	13006	12871	12911
10°	12926	12727	12752
15°	12783	12543	12575
20°	12652	12334	12367
25°	12433	12113	12156
30°	12208	11912	11882
35°	11946	11610	11543
40°	11686	11250	11228
45°	11355	10925	10848
50°	11102	10471	10430
55°	10708	10040	9959
60°	10273	9499	9959
65°	9769	8888	9022
70°	9042	8243	8346
75°	8138	7444	7747
80°	6882	7000	6902
85°	5583	5948	6569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.6	3.3
10°-20°	1196.8	9.5
20°-30°	1802.4	14.3
30°-40°	2155.5	17.1
40°-50°	2213.6	17.5
50°-60°	1987.9	15.8
60°-70°	1529.6	12.1
70°-80°	942.8	7.5
80°-90°	371.8	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°	3418.8	27.1
0°-40°	5574.2	44.2
0°-60°	9775.8	77.5
0°-90°	12620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12620.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4438	4438	4438	4438	4438	
5°	4423	4421	4404	4421	4423	420
15°	4234	4242	4232	4249	4259	1195
25°	3883	3888	3905	3934	3944	1791
35°	3392	3440	3455	3467	3467	2127
45°	2804	2847	2881	2893	2898	2172
55°	2167	2196	2227	2252	2249	1937
65°	1482	1496	1540	1593	1603	1461
75°	784	826	888	947	961	829
85°	213	283	368	421	438	244
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4437.7	4437.7	4437.7	4437.7	4437.7
2.5°	4440.2	4437.7	4420.8	4432.9	4437.7
5°	4423.2	4420.8	4403.9	4420.8	4423.2
7.5°	4394.2	4394.2	4377.2	4394.2	4396.6
10°	4355.4	4355.4	4340.9	4355.4	4360.3
12.5°	4299.7	4304.6	4290.1	4307.0	4311.9
15°	4234.4	4241.6	4232.0	4248.9	4258.6
17.5°	4164.2	4166.6	4161.8	4183.5	4193.2
20°	4086.7	4084.3	4084.3	4113.3	4115.8
22.5°	3982.6	3994.7	3997.1	4028.6	4031.0
25°	3883.3	3888.2	3905.1	3934.2	3943.9
27.5°	3788.9	3786.5	3803.4	3830.1	3839.8
30°	3653.3	3677.5	3706.6	3716.3	3726.0
32.5°	3546.8	3554.1	3583.1	3592.8	3600.1
35°	3391.9	3440.3	3454.8	3466.9	3466.9
37.5°	3266.0	3292.6	3312.0	3333.8	3343.4
40°	3113.4	3147.3	3169.1	3190.9	3198.2
42.5°	2980.3	3002.1	3028.7	3045.7	3050.5
45°	2803.6	2847.1	2881.0	2893.1	2898.0
47.5°	2658.3	2706.7	2711.6	2740.6	2747.9
50°	2503.3	2539.7	2551.8	2585.7	2580.8
52.5°	2331.5	2375.0	2404.1	2413.8	2416.2
55°	2166.8	2195.9	2227.3	2251.6	2249.1
57.5°	1999.8	2024.0	2050.6	2086.9	2089.3
60°	1825.5	1854.5	1883.6	1919.9	2016.7
62.5°	1656.0	1672.9	1706.8	1777.0	1769.8
65°	1481.7	1496.2	1539.8	1593.0	1602.7
67.5°	1292.8	1321.9	1387.3	1421.1	1426.0
70°	1125.8	1152.4	1210.5	1254.1	1263.8
72.5°	949.0	980.5	1043.5	1099.1	1113.7
75°	784.4	825.6	888.5	946.6	961.1
77.5°	614.9	668.2	743.3	883.7	815.9
80°	464.8	525.4	636.7	653.7	660.9
82.5°	331.7	397.0	476.9	535.0	554.4
85°	213.1	283.3	368.0	421.3	438.2
87.5°	118.6	186.4	276.0	329.3	343.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)