Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: **8ILED-LD5-10-W-FLWG-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Report Generated By E9911574 / USPTCWHP6081592

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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:	8ILED-LD5-10-W-FLWG-UNV-L835-CD1-U
Description:	Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUION
Light Source:	(1) 3500 CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6966.0 lumens
Efficiency:	N/A
Efficacy:	104.0 lumens/watt
Spacing Criteria (0/90/45):	1.23 / 1.25 / 1.36
Luminous Opening:	Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type:	Direct
Input Watts (W):	67
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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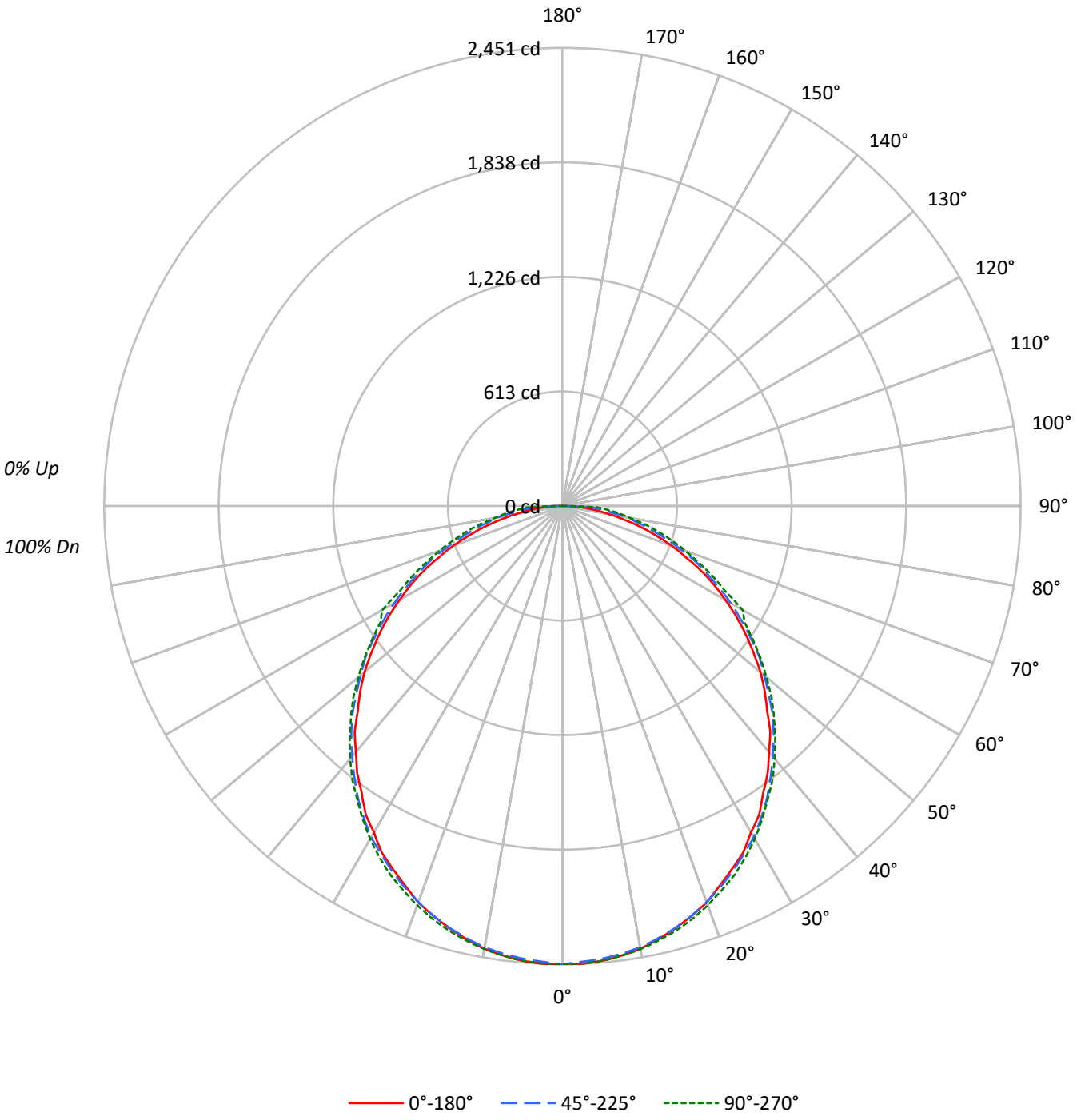
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	3596	3596	3596
5°	3593	3555	3563
10°	3575	3518	3520
15°	3540	3470	3471
20°	3508	3415	3413
25°	3451	3357	3355
30°	3393	3304	3279
35°	3326	3223	3186
40°	3259	3126	3099
45°	3173	3040	2994
50°	3109	2917	2879
55°	3007	2802	2749
60°	2895	2657	2749
65°	2767	2492	2490
70°	2578	2320	2303
75°	2346	2106	2138
80°	2025	1997	1905
85°	1733	1725	1813

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.6	3.3
10°-20°	660.6	9.5
20°-30°	994.9	14.3
30°-40°	1189.8	17.1
40°-50°	1221.9	17.5
50°-60°	1097.3	15.8
60°-70°	844.3	12.1
70°-80°	520.4	7.5
80°-90°	205.2	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°	1887.1	27.1
0°-40°	3076.9	44.2
0°-60°	5396.1	77.5
0°-90°	6966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2450	2450	2450	2450	2450	
5°	2442	2440	2431	2440	2442	232
15°	2337	2341	2336	2345	2351	660
25°	2144	2146	2156	2172	2177	989
35°	1872	1899	1907	1914	1914	1174
45°	1548	1572	1590	1597	1600	1199
55°	1196	1212	1230	1243	1242	1069
65°	818	826	850	879	885	807
75°	433	456	490	522	530	458
85°	118	156	203	232	242	135
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*2449.6*	2449.6	2449.6	2449.6	2449.6
2.5°	*2450.9*	*2449.6*	*2440.2*	*2446.9*	*2449.6*
5°	*2441.5*	2440.2	2430.8	2440.2	2441.5
7.5°	*2425.5*	2425.5	2416.1	2425.5	2426.8
10°	*2404.1*	2404.1	2396.1	2404.1	2406.8
12.5°	*2373.4*	2376.1	2368.0	2377.4	2380.1
15°	*2337.3*	2341.3	2336.0	2345.3	2350.7
17.5°	*2298.5*	2299.9	2297.2	2309.2	2314.6
20°	*2255.8*	2254.4	2254.4	2270.5	2271.8
22.5°	*2198.3*	2205.0	2206.3	2223.7	2225.0
25°	*2143.5*	2146.2	2155.6	2171.6	2176.9
27.5°	*2091.4*	2090.1	2099.4	2114.1	2119.5
30°	*2016.6*	2029.9	2046.0	2051.3	2056.7
32.5°	*1957.8*	1961.8	1977.8	1983.2	1987.2
35°	*1872.2*	1899.0	1907.0	1913.7	1913.7
37.5°	*1802.8*	1817.5	1828.1	1840.2	1845.5
40°	*1718.6*	1737.3	1749.3	1761.3	1765.3
42.5°	*1645.1*	1657.1	1671.8	1681.1	1683.8
45°	*1547.5*	1571.6	1590.3	1597.0	1599.6
47.5°	*1467.3*	1494.1	1496.7	1512.8	1516.8
50°	*1381.8*	1401.8	1408.5	1427.2	1424.6
52.5°	*1286.9*	1311.0	1327.0	1332.4	1333.7
55°	*1196.0*	1212.1	1229.5	1242.8	1241.5
57.5°	*1103.8*	1117.2	1131.9	1151.9	1153.3
60°	*1007.6*	1023.7	1039.7	1059.7	1113.2
62.5°	*914.1*	923.4	942.1	980.9	976.9
65°	*817.9*	825.9	849.9	879.3	884.7
67.5°	*713.6*	729.7	765.7	784.4	787.1
70°	*621.4*	636.1	668.2	692.2	697.6
72.5°	*523.9*	541.2	576.0	606.7	614.7
75°	*433.0*	455.7	490.4	522.5	530.5
77.5°	*339.4*	368.8	410.3	487.8	450.4
80°	*256.6*	290.0	351.5	360.8	364.8
82.5°	*183.1*	219.2	263.3	295.3	306.0
85°	*117.6*	156.4	203.1	232.5	241.9
87.5°	*65.5*	102.9	152.3	181.7	189.8
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)