

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: P229602

Luminaire Tested: **22RLN-LD5-20-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36050)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-20-UNV-L940-CD1-U
Description: METALUX 2X2 RLN LED TROFFER
Light Source: (126)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1781.0 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

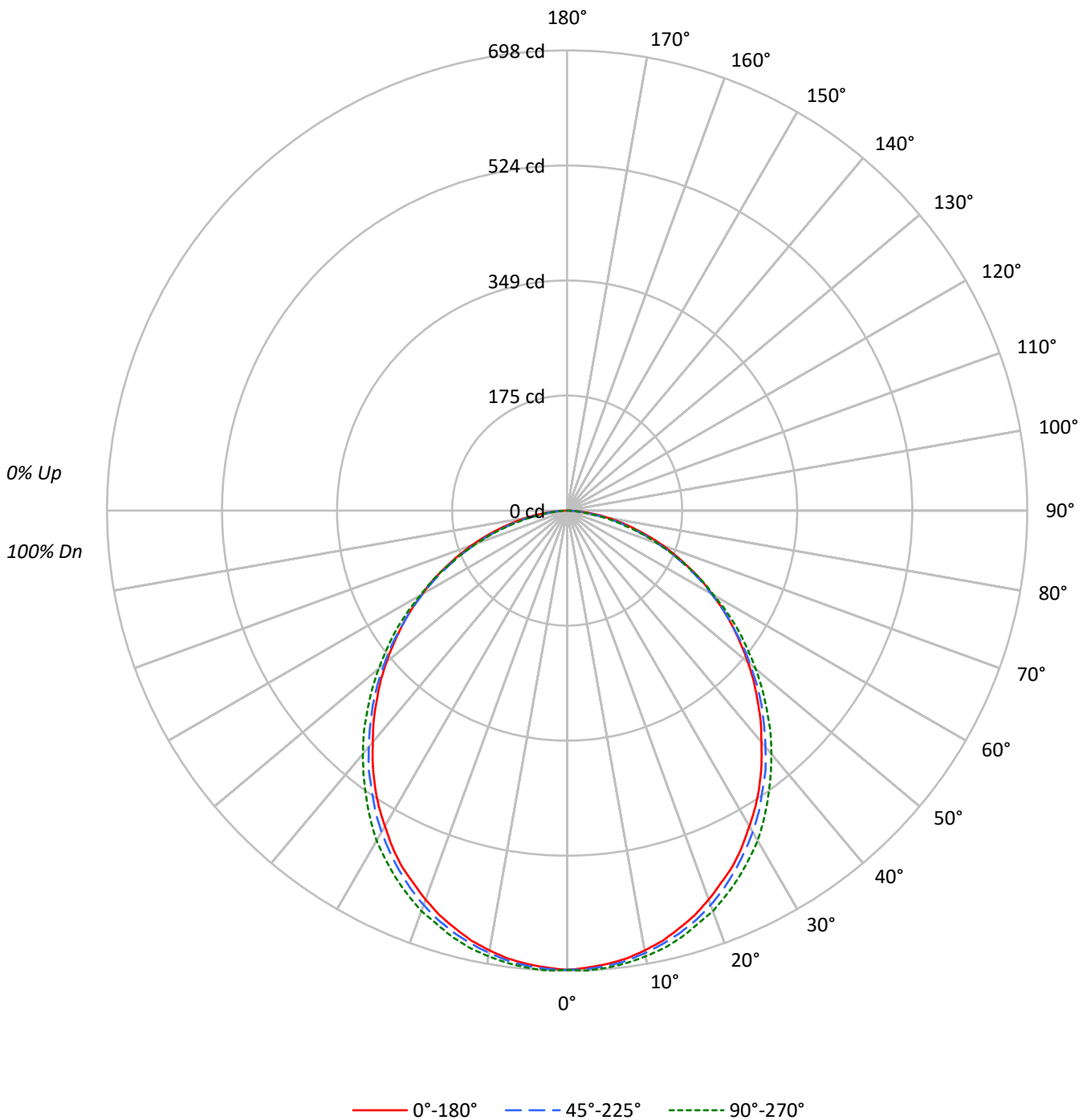
Input Watts (W): 16.43
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2231	2231	2231
5°	2220	2229	2238
10°	2203	2216	2233
15°	2175	2198	2222
20°	2140	2170	2203
25°	2101	2129	2173
30°	2044	2082	2138
35°	1989	2020	2077
40°	1916	1957	2016
45°	1851	1887	1941
50°	1783	1803	1859
55°	1709	1712	1772
60°	1628	1620	1645
65°	1540	1506	1528
70°	1443	1369	1375
75°	1307	1202	1167
80°	1156	1011	937
85°	933	706	603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	3.7
10°-20°	186.9	10.5
20°-30°	277.8	15.6
30°-40°	324.3	18.2
40°-50°	321.9	18.1
50°-60°	276.3	15.5
60°-70°	198.3	11.1
70°-80°	105.1	5.9
80°-90°	24.6	1.4
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°	530.6	29.8
0°-40°	854.9	48.0
0°-60°	1453.0	81.6
0°-90°	1781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	697	697	697	697	697	
5°	690	692	693	696	696	66
15°	656	658	663	668	670	185
25°	594	596	602	611	615	273
35°	509	510	517	528	531	318
45°	409	410	417	424	428	316
55°	306	304	307	313	317	274
65°	203	198	199	200	202	202
75°	106	100	97	96	94	112
85°	25	22	19	16	16	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	696.7	696.7	696.7	696.7	696.7
2.5°	693.9	694.4	696.1	697.8	698.4
5°	690.5	691.6	693.3	695.5	696.1
7.5°	685.4	686.5	688.8	691.0	692.2
10°	677.5	679.2	681.4	685.4	686.5
12.5°	668.5	669.6	673.0	677.5	679.7
15°	656.0	658.3	662.8	667.9	670.1
17.5°	643.6	645.3	650.9	656.0	657.7
20°	627.8	631.2	636.8	643.0	646.4
22.5°	610.9	613.7	620.5	627.8	631.2
25°	594.5	596.2	602.4	611.4	614.8
27.5°	574.7	576.4	583.2	592.2	596.7
30°	552.7	555.5	562.9	573.0	578.1
32.5°	531.8	534.1	541.4	550.5	555.5
35°	508.7	510.4	516.6	527.9	531.3
37.5°	484.4	486.1	494.6	503.0	507.0
40°	458.4	460.7	468.0	476.5	482.1
42.5°	434.7	435.8	442.1	451.7	456.7
45°	408.7	410.4	416.7	424.0	428.5
47.5°	383.9	383.3	389.6	398.0	401.4
50°	357.9	356.8	361.9	370.4	373.2
52.5°	332.0	330.3	335.9	342.1	344.4
55°	306.0	304.3	306.6	313.3	317.3
57.5°	280.6	277.8	280.6	284.0	287.4
60°	254.1	249.5	252.9	256.9	256.9
62.5°	229.8	224.7	226.4	229.2	230.9
65°	203.2	198.2	198.7	200.4	201.6
67.5°	178.4	173.3	172.2	172.8	173.3
70°	154.1	148.5	146.2	145.1	146.8
72.5°	129.3	123.6	122.5	120.3	120.8
75°	105.6	100.5	97.1	96.0	94.3
77.5°	83.0	78.5	75.7	72.3	71.7
80°	62.7	57.0	54.8	52.5	50.8
82.5°	44.0	39.0	35.0	32.7	31.1
85°	25.4	22.0	19.2	16.4	16.4
87.5°	10.2	7.9	6.8	6.2	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)