

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: P296406

Luminaire Tested: **22RLN-LD5-20-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-20-UNV-L82765-W2A1-U-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2002.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

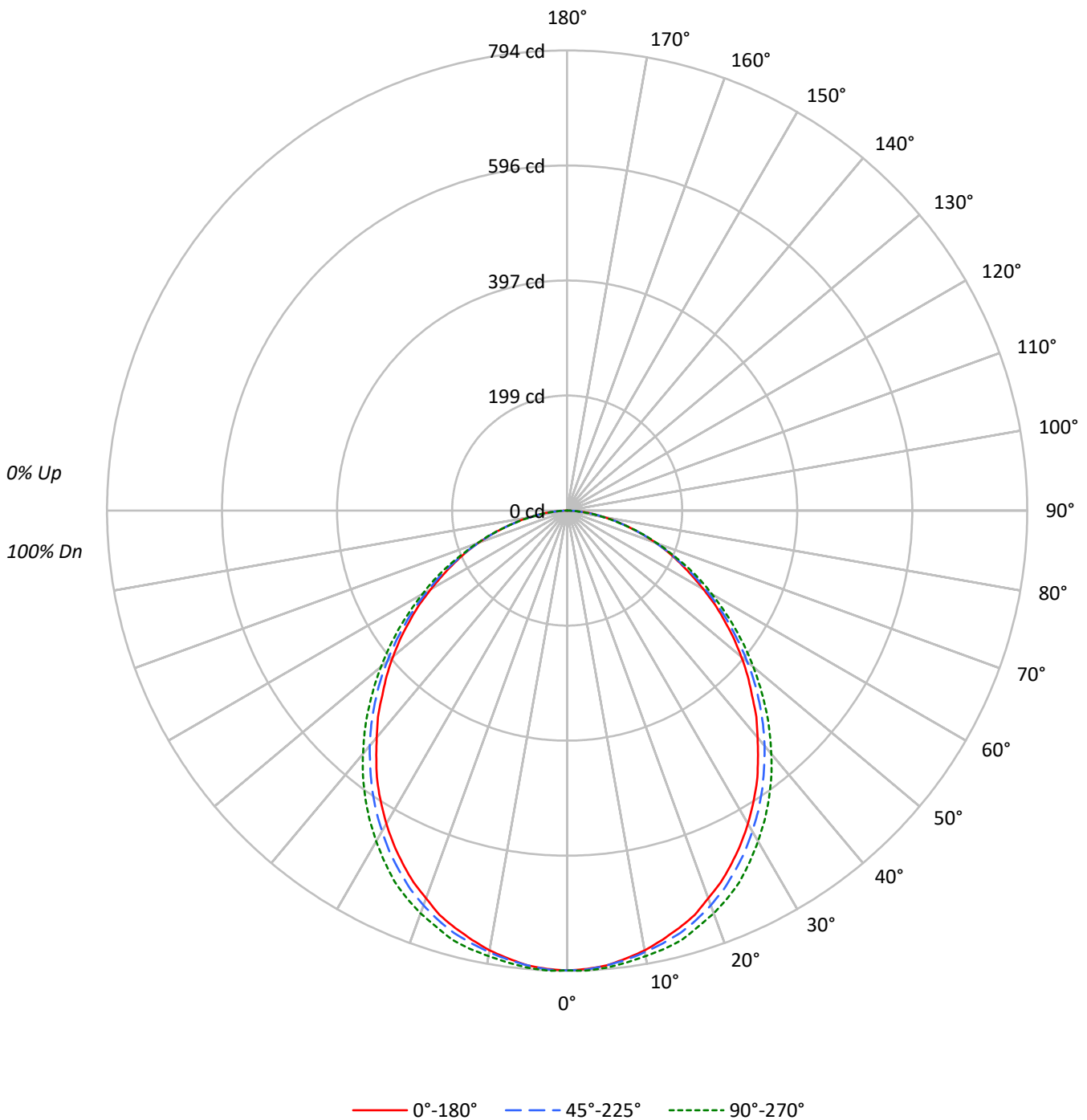
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	74	71																												
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61																												
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52																												
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46																												
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40																												
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36																												
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32																												
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29																												
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°	2135	2135	2135
5°	2128	2128	2138
10°	2106	2114	2133
15°	2077	2102	2136
20°	2038	2075	2118
25°	1995	2036	2095
30°	1939	1985	2047
35°	1876	1928	1994
40°	1795	1862	1925
45°	1717	1785	1846
50°	1642	1697	1755
55°	1555	1602	1658
60°	1461	1499	1553
65°	1373	1398	1443
70°	1280	1280	1304
75°	1142	1142	1142
80°	1006	975	975
85°	803	772	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	3.7
10°-20°	212.8	10.6
20°-30°	316.1	15.8
30°-40°	366.8	18.3
40°-50°	361.2	18.0
50°-60°	305.7	15.3
60°-70°	218.0	10.9
70°-80°	117.1	5.9
80°-90°	29.5	1.5
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°	603.7	30.2
0°-40°	970.5	48.5
0°-60°	1637.4	81.8
0°-90°	2002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	794	794	794	794	794	
5°	788	788	788	791	792	75
15°	746	748	755	762	767	210
25°	672	674	686	699	706	309
35°	571	572	587	601	607	356
45°	451	454	469	480	485	349
55°	331	332	341	350	353	297
65°	216	216	220	224	227	214
75°	110	109	110	110	110	118
85°	26	25	25	23	23	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	793.5	793.5	793.5	793.5	793.5
2.5°	791.6	791.6	792.6	793.5	794.5
5°	787.6	787.6	787.6	790.6	791.6
7.5°	779.6	780.6	781.6	784.6	786.6
10°	770.6	771.6	773.6	778.6	780.6
12.5°	758.6	761.6	764.6	771.6	774.6
15°	745.6	747.6	754.6	761.6	766.6
17.5°	731.7	732.7	740.6	750.6	752.6
20°	711.7	714.7	724.7	734.7	739.6
22.5°	693.7	695.7	706.7	719.7	723.7
25°	671.8	673.8	685.7	698.7	705.7
27.5°	648.8	650.8	663.8	677.8	682.8
30°	623.9	625.9	638.8	653.8	658.8
32.5°	597.9	599.9	613.9	626.9	633.8
35°	571.0	572.0	586.9	600.9	606.9
37.5°	541.0	544.0	558.0	572.0	578.9
40°	511.1	514.1	530.0	543.0	548.0
42.5°	483.1	487.1	500.1	512.1	517.1
45°	451.2	454.2	469.1	480.1	485.1
47.5°	422.2	425.2	438.2	449.2	452.2
50°	392.3	394.3	405.3	415.2	419.2
52.5°	362.3	363.3	373.3	383.3	386.3
55°	331.4	332.4	341.4	350.4	353.4
57.5°	302.4	302.4	310.4	317.4	320.4
60°	271.5	271.5	278.5	285.5	288.5
62.5°	242.6	242.6	249.5	254.5	258.5
65°	215.6	215.6	219.6	223.6	226.6
67.5°	189.7	186.7	190.7	195.6	194.6
70°	162.7	159.7	162.7	164.7	165.7
72.5°	135.8	133.8	135.8	136.7	138.7
75°	109.8	108.8	109.8	109.8	109.8
77.5°	87.8	84.8	86.8	85.8	84.8
80°	64.9	63.9	62.9	61.9	62.9
82.5°	44.9	43.9	43.9	41.9	41.9
85°	26.0	25.0	25.0	23.0	23.0
87.5°	10.0	10.0	9.0	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)