

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: P296490

Luminaire Tested: **22RLN-LD5-20-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296490
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-L92765-W2A1-U-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1772.0 lumens
Efficiency: N/A
Efficacy: 113.4 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

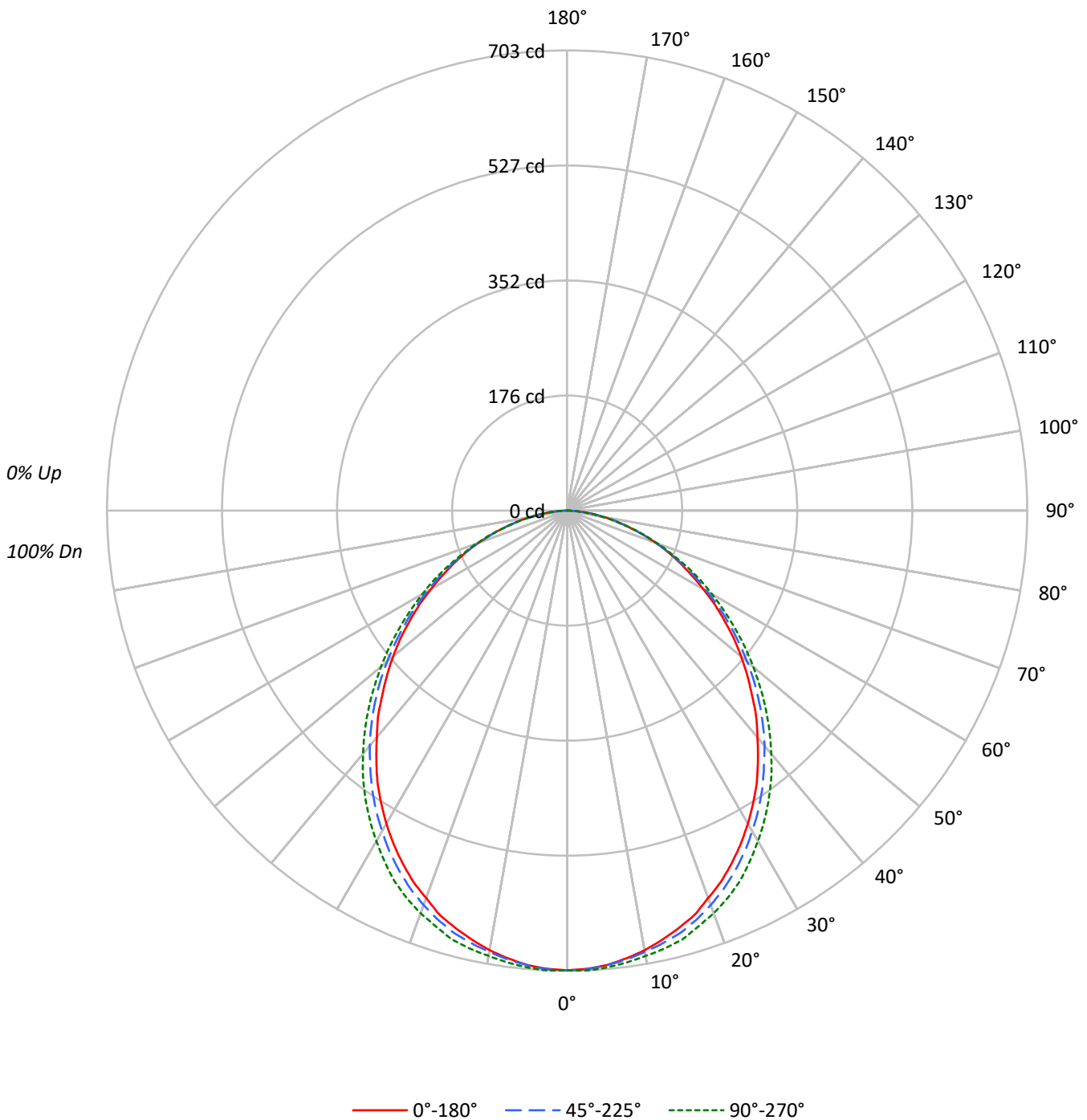
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1890	1890	1890
5°	1883	1883	1893
10°	1864	1871	1888
15°	1839	1861	1890
20°	1804	1837	1875
25°	1765	1802	1855
30°	1716	1757	1812
35°	1660	1707	1765
40°	1589	1648	1704
45°	1520	1580	1634
50°	1454	1502	1554
55°	1376	1418	1468
60°	1293	1327	1374
65°	1215	1238	1277
70°	1133	1133	1154
75°	1011	1011	1011
80°	890	863	863
85°	710	682	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	3.7
10°-20°	188.3	10.6
20°-30°	279.8	15.8
30°-40°	324.7	18.3
40°-50°	319.7	18.0
50°-60°	270.6	15.3
60°-70°	192.9	10.9
70°-80°	103.7	5.9
80°-90°	26.1	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°	534.3	30.2
0°-40°	859.0	48.5
0°-60°	1449.2	81.8
0°-90°	1772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1772.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	697	697	697	700	701	66
15°	660	662	668	674	678	186
25°	595	596	607	618	625	274
35°	505	506	520	532	537	315
45°	399	402	415	425	429	309
55°	293	294	302	310	313	263
65°	191	191	194	198	201	189
75°	97	96	97	97	97	104
85°	23	22	22	20	20	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.4	702.4	702.4	702.4	702.4
2.5°	700.6	700.6	701.5	702.4	703.3
5°	697.1	697.1	697.1	699.7	700.6
7.5°	690.0	690.9	691.8	694.4	696.2
10°	682.1	682.9	684.7	689.1	690.9
12.5°	671.5	674.1	676.8	682.9	685.6
15°	660.0	661.7	667.9	674.1	678.5
17.5°	647.6	648.5	655.6	664.4	666.2
20°	629.9	632.6	641.4	650.3	654.7
22.5°	614.0	615.8	625.5	637.0	640.5
25°	594.6	596.4	607.0	618.4	624.6
27.5°	574.3	576.0	587.5	599.9	604.3
30°	552.2	554.0	565.4	578.7	583.1
32.5°	529.2	531.0	543.4	554.8	561.0
35°	505.4	506.2	519.5	531.9	537.2
37.5°	478.9	481.5	493.9	506.2	512.4
40°	452.4	455.0	469.1	480.6	485.0
42.5°	427.6	431.1	442.6	453.2	457.7
45°	399.3	402.0	415.2	425.0	429.4
47.5°	373.7	376.4	387.9	397.6	400.2
50°	347.2	349.0	358.7	367.5	371.1
52.5°	320.7	321.6	330.4	339.3	341.9
55°	293.3	294.2	302.2	310.1	312.8
57.5°	267.7	267.7	274.8	281.0	283.6
60°	240.3	240.3	246.5	252.7	255.3
62.5°	214.7	214.7	220.9	225.3	228.8
65°	190.8	190.8	194.4	197.9	200.6
67.5°	167.9	165.2	168.7	173.2	172.3
70°	144.0	141.4	144.0	145.8	146.7
72.5°	120.2	118.4	120.2	121.0	122.8
75°	97.2	96.3	97.2	97.2	97.2
77.5°	77.7	75.1	76.9	76.0	75.1
80°	57.4	56.5	55.7	54.8	55.7
82.5°	39.8	38.9	38.9	37.1	37.1
85°	23.0	22.1	22.1	20.3	20.3
87.5°	8.8	8.8	8.0	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)