

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: P296670

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-25-RDP-UNV-L92765-W2A1-U-5500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1877.0 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

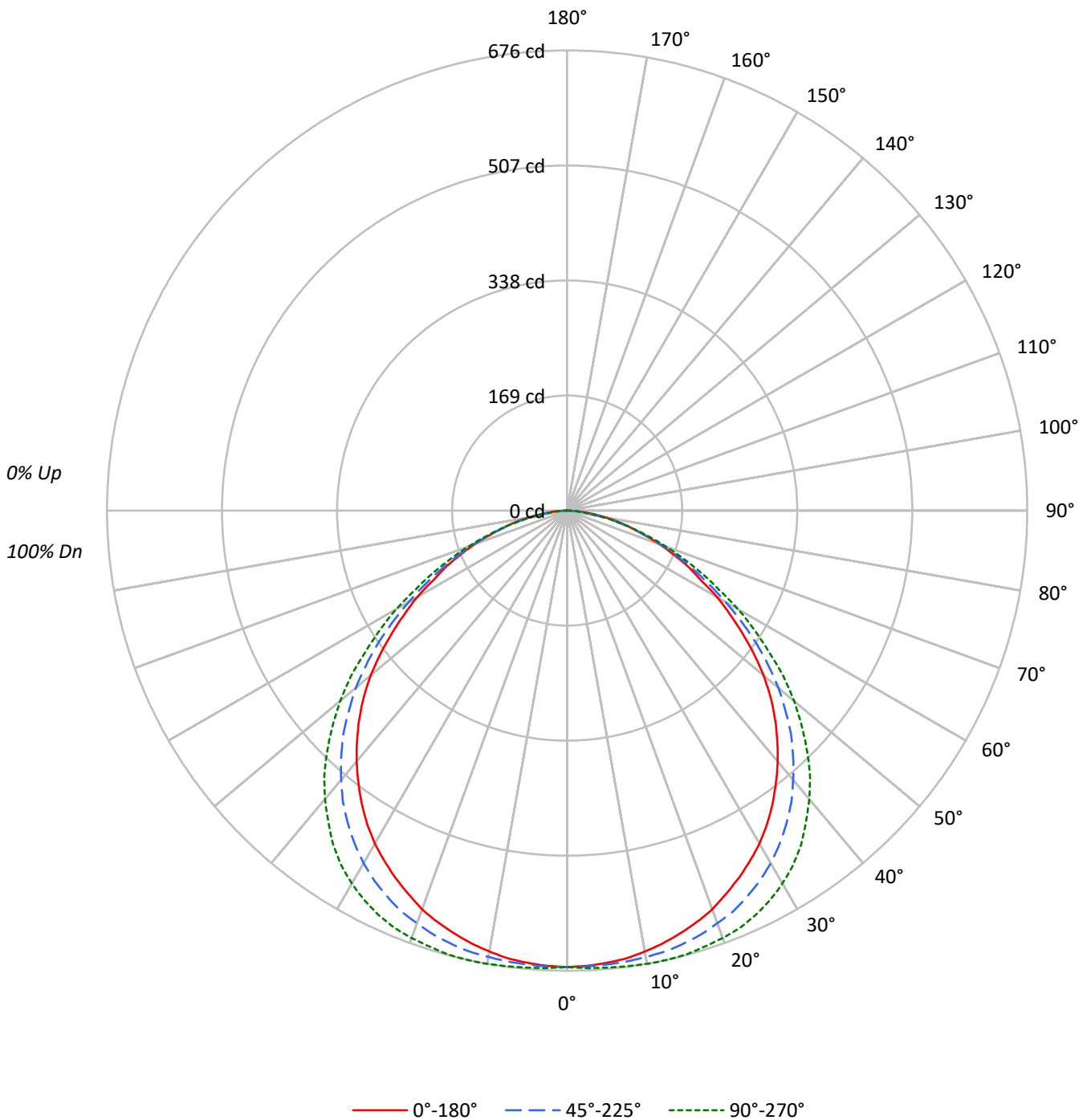
Input Watts (W): 19.437
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	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	72
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	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1804	1804	1804
5°	1802	1808	1820
10°	1797	1820	1848
15°	1791	1836	1881
20°	1785	1848	1914
25°	1769	1858	1946
30°	1755	1858	1966
35°	1727	1844	1969
40°	1690	1815	1944
45°	1643	1770	1896
50°	1577	1697	1822
55°	1476	1589	1696
60°	1372	1446	1563
65°	1258	1301	1389
70°	1138	1157	1210
75°	1002	978	1015
80°	872	801	766
85°	710	531	460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	3.4
10°-20°	186.2	9.9
20°-30°	288.4	15.4
30°-40°	351.0	18.7
40°-50°	357.5	19.0
50°-60°	301.5	16.1
60°-70°	203.9	10.9
70°-80°	101.9	5.4
80°-90°	22.7	1.2
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°	538.4	28.7
0°-40°	889.5	47.4
0°-60°	1548.5	82.5
0°-90°	1877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1877.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	667	668	669	673	674	63
15°	643	648	659	670	675	182
25°	596	605	626	646	656	275
35°	526	537	561	588	599	329
45°	432	440	465	489	498	332
55°	315	319	339	355	362	281
65°	198	194	204	214	218	195
75°	96	93	94	95	98	103
85°	23	20	17	15	15	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	670.5	670.5	670.5	670.5	670.5
2.5°	669.3	669.3	670.5	671.6	672.8
5°	667.0	668.2	669.3	672.8	673.9
7.5°	663.6	664.7	668.2	672.8	675.1
10°	657.8	660.1	665.9	672.8	676.2
12.5°	651.0	654.4	663.6	671.6	676.2
15°	642.9	647.5	659.0	670.5	675.1
17.5°	633.7	639.5	653.2	665.9	671.6
20°	623.4	630.3	645.2	661.3	668.2
22.5°	609.6	618.8	637.2	655.5	663.6
25°	595.8	605.0	625.7	646.4	655.5
27.5°	580.9	591.3	613.1	636.0	645.2
30°	564.8	574.0	598.1	622.3	632.6
32.5°	546.5	555.7	580.9	606.2	617.7
35°	525.8	537.3	561.4	587.8	599.3
37.5°	504.0	514.3	540.7	566.0	576.3
40°	481.0	491.4	516.6	543.0	553.4
42.5°	456.9	467.3	491.4	516.6	528.1
45°	431.7	439.7	465.0	489.1	498.3
47.5°	405.3	411.0	435.1	458.1	467.3
50°	376.6	382.3	405.3	425.9	435.1
52.5°	345.6	350.2	372.0	390.3	400.7
55°	314.6	319.2	338.7	354.8	361.6
57.5°	283.6	285.9	303.1	319.2	326.1
60°	254.9	254.9	268.6	281.3	290.5
62.5°	221.6	225.0	235.4	248.0	251.4
65°	197.5	194.0	204.4	213.5	218.1
67.5°	169.9	167.6	174.5	182.5	184.8
70°	144.7	141.2	147.0	151.5	153.8
72.5°	118.3	117.1	119.4	122.8	124.0
75°	96.4	93.0	94.1	95.3	97.6
77.5°	76.9	71.2	72.3	71.2	72.3
80°	56.3	51.7	51.7	50.5	49.4
82.5°	37.9	35.6	33.3	31.0	29.8
85°	23.0	19.5	17.2	14.9	14.9
87.5°	9.2	6.9	5.7	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)