

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: P296576

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296576
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-LD5-20-RDP-UNV-L82765-W2A1-U-5000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1675.0 lumens
Efficiency: N/A
Efficacy: 105.9 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

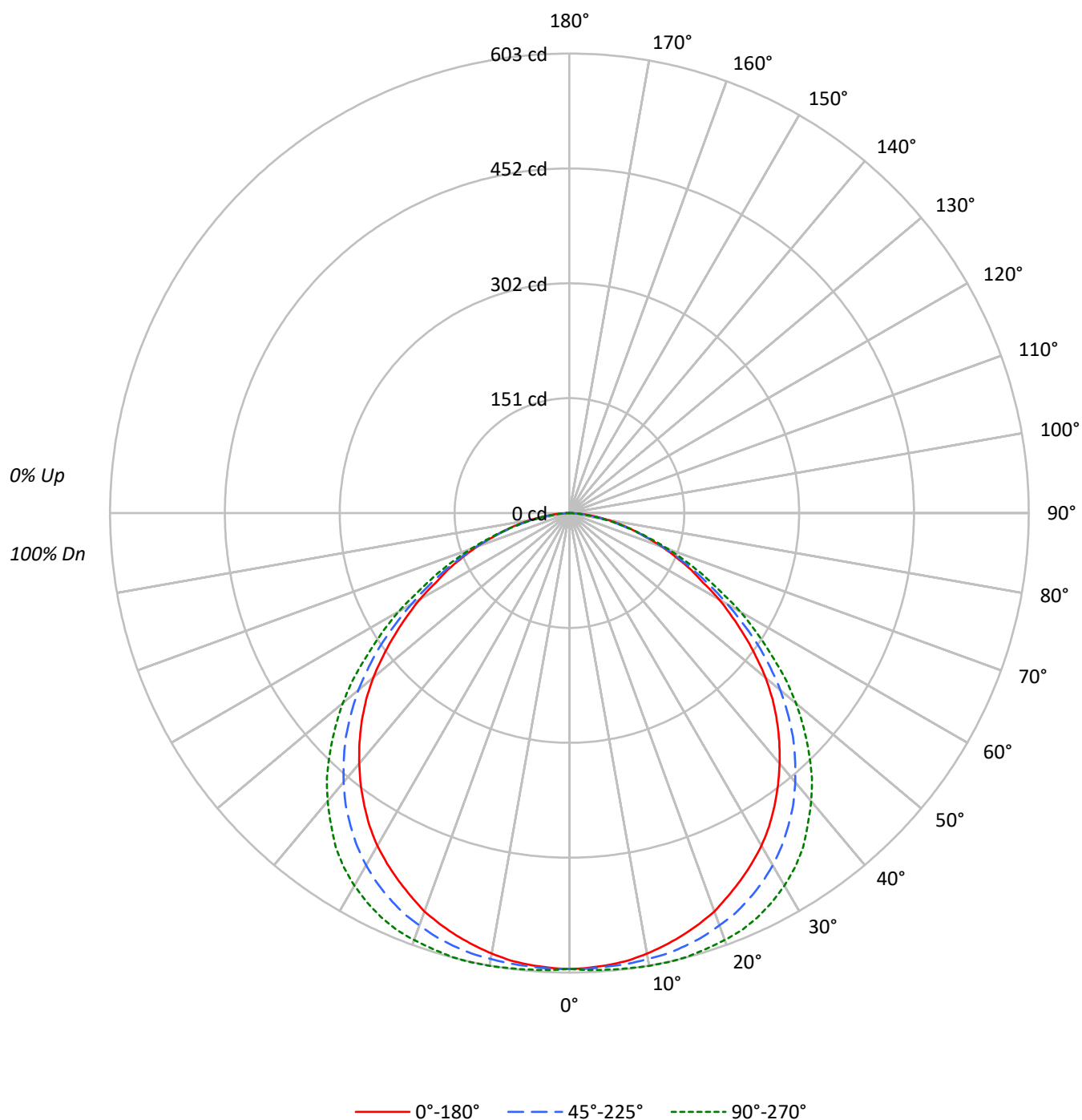
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		94	92	90		91	89	87
2	100	92	85	80	97	90	84	79		86	81	77		83	79	75		80	77	74
3	91	81	73	67	89	79	72	66		76	70	65		74	68	64		71	67	63
4	84	72	63	57	81	71	63	56		68	61	56		66	60	55		64	58	54
5	77	64	56	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		54	47	42		52	46	42
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	33		45	38	33		44	38	33
9	57	44	36	30	56	43	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	52	40	33	27		39	32	27		38	32	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1610	1610	1610
5°	1608	1613	1625
10°	1604	1624	1649
15°	1598	1638	1678
20°	1593	1649	1708
25°	1579	1658	1737
30°	1566	1659	1754
35°	1541	1646	1757
40°	1508	1619	1735
45°	1466	1579	1692
50°	1407	1514	1626
55°	1317	1418	1514
60°	1224	1290	1395
65°	1122	1161	1240
70°	1016	1031	1080
75°	895	873	906
80°	778	714	683
85°	633	475	411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.0	3.4
10°-20°	166.1	9.9
20°-30°	257.4	15.4
30°-40°	313.3	18.7
40°-50°	319.0	19.0
50°-60°	269.0	16.1
60°-70°	182.0	10.9
70°-80°	90.9	5.4
80°-90°	20.2	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°	480.5	28.7
0°-40°	793.7	47.4
0°-60°	1381.8	82.5
0°-90°	1675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	595	596	597	600	601	57
15°	574	578	588	598	602	162
25°	532	540	558	577	585	245
35°	469	480	501	525	535	293
45°	385	392	415	436	445	297
55°	281	285	302	317	323	251
65°	176	173	182	191	195	174
75°	86	83	84	85	87	92
85°	20	17	15	13	13	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	598.3	598.3	598.3	598.3	598.3
2.5°	597.3	597.3	598.3	599.3	600.4
5°	595.2	596.3	597.3	600.4	601.4
7.5°	592.2	593.2	596.3	600.4	602.4
10°	587.0	589.1	594.2	600.4	603.4
12.5°	580.9	584.0	592.2	599.3	603.4
15°	573.7	577.8	588.1	598.3	602.4
17.5°	565.5	570.7	582.9	594.2	599.3
20°	556.3	562.5	575.8	590.1	596.3
22.5°	544.0	552.2	568.6	585.0	592.2
25°	531.7	539.9	558.4	576.8	585.0
27.5°	518.4	527.6	547.1	567.6	575.8
30°	504.1	512.3	533.8	555.3	564.5
32.5°	487.7	495.9	518.4	540.9	551.2
35°	469.2	479.5	501.0	524.6	534.8
37.5°	449.8	459.0	482.5	505.1	514.3
40°	429.3	438.5	461.0	484.6	493.8
42.5°	407.8	417.0	438.5	461.0	471.3
45°	385.2	392.4	414.9	436.4	444.6
47.5°	361.7	366.8	388.3	408.8	417.0
50°	336.0	341.2	361.7	380.1	388.3
52.5°	308.4	312.5	331.9	348.3	357.6
55°	280.7	284.8	302.2	316.6	322.7
57.5°	253.1	255.1	270.5	284.8	291.0
60°	227.4	227.4	239.7	251.0	259.2
62.5°	197.7	200.8	210.0	221.3	224.4
65°	176.2	173.1	182.4	190.6	194.7
67.5°	151.6	149.6	155.7	162.9	164.9
70°	129.1	126.0	131.1	135.2	137.3
72.5°	105.5	104.5	106.5	109.6	110.6
75°	86.1	83.0	84.0	85.0	87.1
77.5°	68.6	63.5	64.5	63.5	64.5
80°	50.2	46.1	46.1	45.1	44.1
82.5°	33.8	31.8	29.7	27.7	26.6
85°	20.5	17.4	15.4	13.3	13.3
87.5°	8.2	6.1	5.1	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)