

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: P296493

Luminaire Tested: **22RLN-LD5-20-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296493
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-5500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1883.0 lumens
Efficiency: N/A
Efficacy: 118.4 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

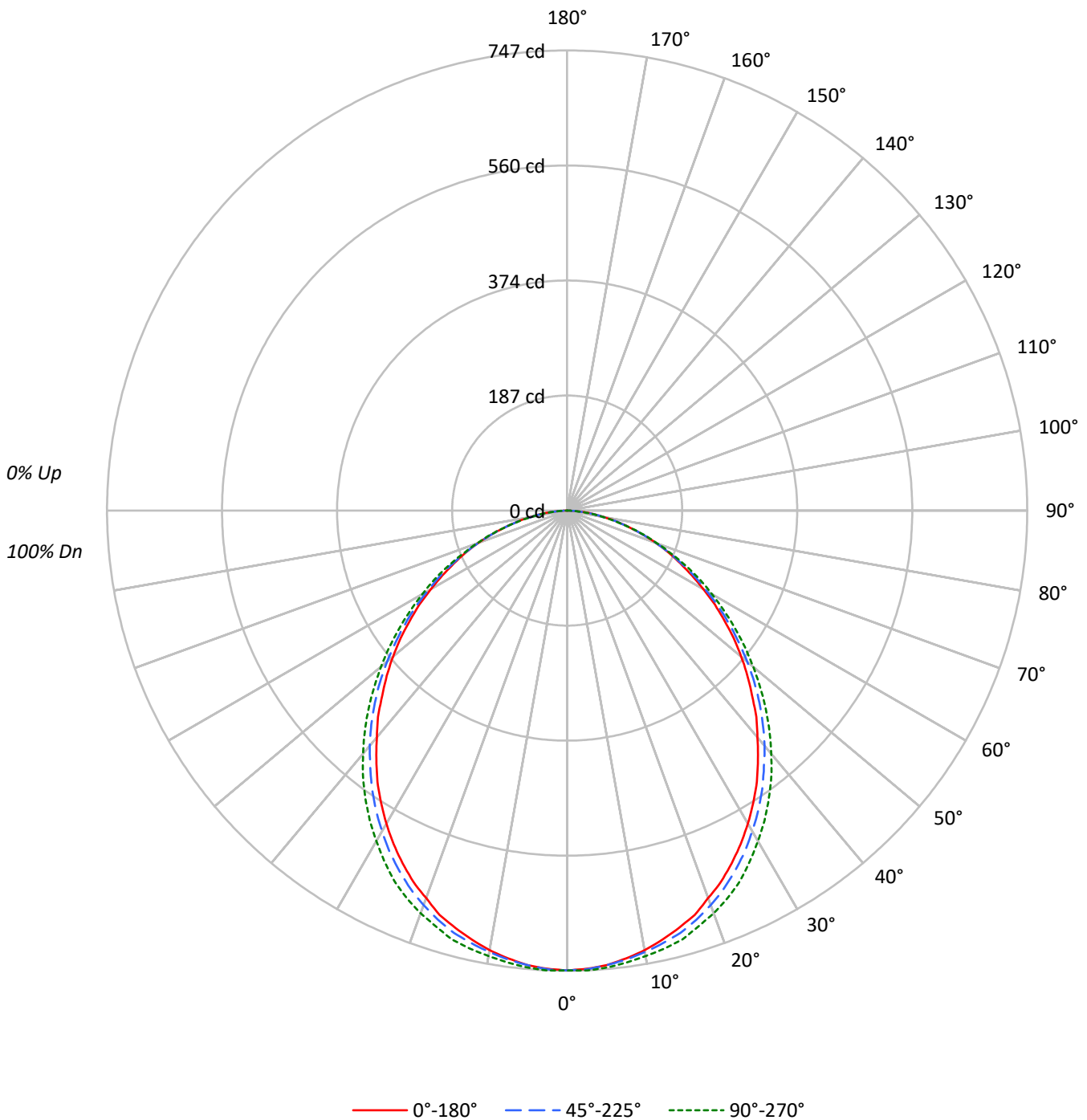
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2009	2009	2009
5°	2001	2001	2011
10°	1981	1988	2006
15°	1954	1977	2009
20°	1917	1952	1992
25°	1876	1915	1971
30°	1823	1867	1925
35°	1764	1813	1875
40°	1689	1751	1811
45°	1615	1679	1737
50°	1545	1596	1651
55°	1462	1506	1559
60°	1375	1410	1460
65°	1291	1315	1357
70°	1204	1204	1226
75°	1074	1074	1074
80°	945	916	916
85°	753	726	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	3.7
10°-20°	200.1	10.6
20°-30°	297.3	15.8
30°-40°	345.0	18.3
40°-50°	339.7	18.0
50°-60°	287.5	15.3
60°-70°	205.0	10.9
70°-80°	110.2	5.9
80°-90°	27.8	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°	567.8	30.2
0°-40°	912.8	48.5
0°-60°	1540.0	81.8
0°-90°	1883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1883.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	746	746	746	746	746	
5°	741	741	741	744	744	70
15°	701	703	710	716	721	198
25°	632	634	645	657	664	291
35°	537	538	552	565	571	335
45°	424	427	441	452	456	328
55°	312	313	321	330	332	279
65°	203	203	206	210	213	201
75°	103	102	103	103	103	111
85°	24	24	24	22	22	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	746.4	746.4	746.4	746.4	746.4
2.5°	744.5	744.5	745.4	746.4	747.3
5°	740.7	740.7	740.7	743.6	744.5
7.5°	733.2	734.2	735.1	737.9	739.8
10°	724.8	725.7	727.6	732.3	734.2
12.5°	713.5	716.3	719.2	725.7	728.5
15°	701.3	703.2	709.8	716.3	721.0
17.5°	688.2	689.1	696.6	706.0	707.9
20°	669.4	672.2	681.6	691.0	695.7
22.5°	652.5	654.4	664.7	676.9	680.7
25°	631.8	633.7	645.0	657.2	663.8
27.5°	610.2	612.1	624.3	637.5	642.2
30°	586.8	588.7	600.9	614.9	619.6
32.5°	562.4	564.2	577.4	589.6	596.2
35°	537.0	538.0	552.0	565.2	570.8
37.5°	508.9	511.7	524.8	538.0	544.5
40°	480.7	483.5	498.5	510.7	515.4
42.5°	454.4	458.2	470.4	481.6	486.3
45°	424.4	427.2	441.3	451.6	456.3
47.5°	397.1	399.9	412.2	422.5	425.3
50°	369.0	370.8	381.2	390.6	394.3
52.5°	340.8	341.7	351.1	360.5	363.3
55°	311.7	312.6	321.1	329.5	332.4
57.5°	284.5	284.5	292.0	298.6	301.4
60°	255.4	255.4	261.9	268.5	271.3
62.5°	228.1	228.1	234.7	239.4	243.2
65°	202.8	202.8	206.5	210.3	213.1
67.5°	178.4	175.6	179.3	184.0	183.1
70°	153.0	150.2	153.0	154.9	155.8
72.5°	127.7	125.8	127.7	128.6	130.5
75°	103.3	102.3	103.3	103.3	103.3
77.5°	82.6	79.8	81.7	80.7	79.8
80°	61.0	60.1	59.1	58.2	59.1
82.5°	42.2	41.3	41.3	39.4	39.4
85°	24.4	23.5	23.5	21.6	21.6
87.5°	9.4	9.4	8.4	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)