

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: P296494

Luminaire Tested: **22RLN-LD5-20-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296494
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-5700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1891.0 lumens
Efficiency: N/A
Efficacy: 118.9 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

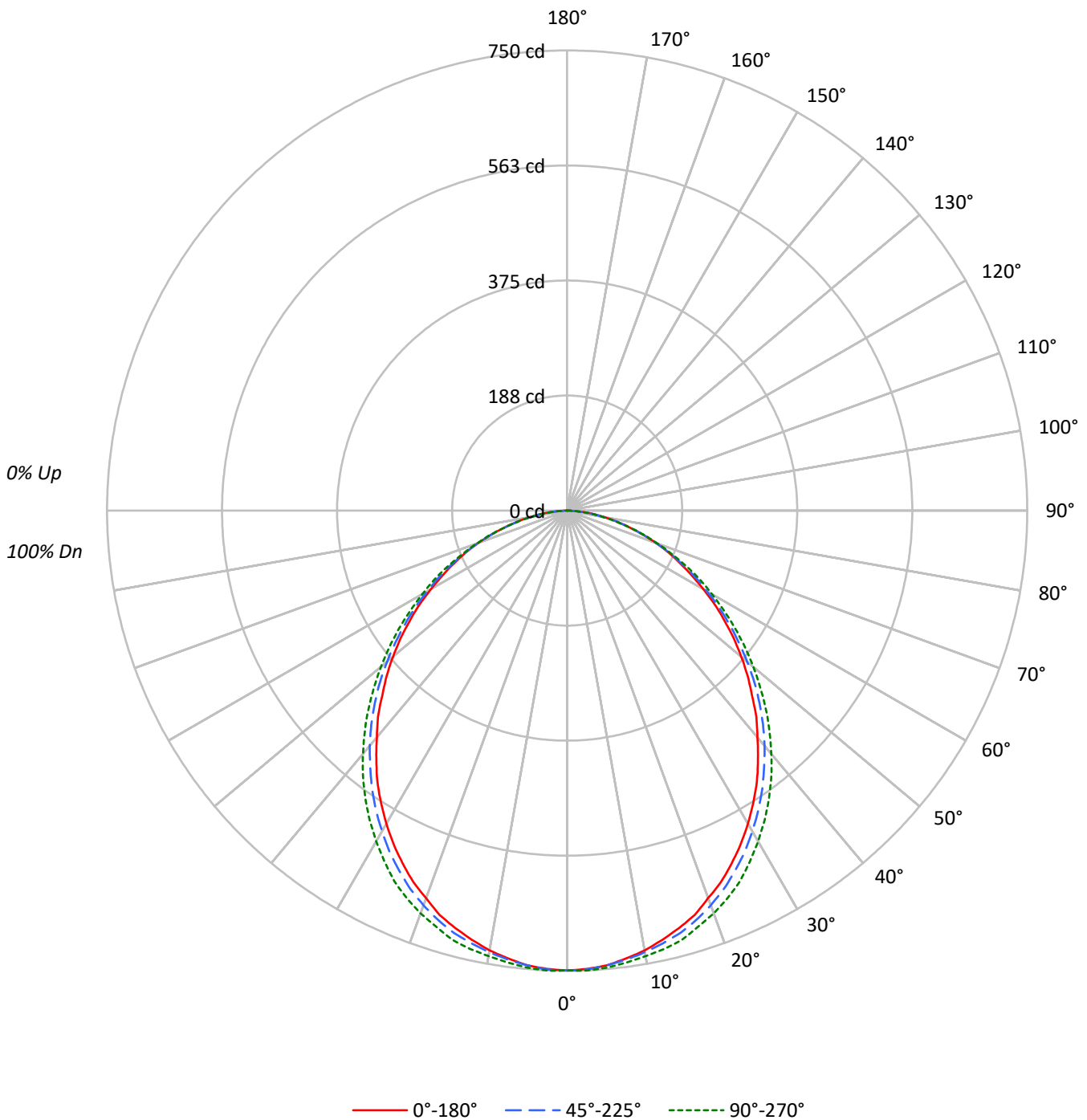
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2017	2017	2017
5°	2009	2009	2020
10°	1989	1997	2015
15°	1962	1986	2017
20°	1925	1960	2001
25°	1884	1923	1979
30°	1831	1875	1934
35°	1772	1821	1883
40°	1696	1759	1818
45°	1622	1686	1744
50°	1551	1603	1658
55°	1468	1513	1566
60°	1380	1415	1467
65°	1297	1321	1363
70°	1209	1209	1231
75°	1078	1078	1078
80°	950	921	921
85°	756	729	670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	3.7
10°-20°	201.0	10.6
20°-30°	298.5	15.8
30°-40°	346.5	18.3
40°-50°	341.2	18.0
50°-60°	288.7	15.3
60°-70°	205.9	10.9
70°-80°	110.6	5.9
80°-90°	27.9	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°	570.2	30.2
0°-40°	916.7	48.5
0°-60°	1546.6	81.8
0°-90°	1891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	750	750	750	750	750	
5°	744	744	744	747	748	70
15°	704	706	713	719	724	199
25°	634	636	648	660	667	292
35°	539	540	554	568	573	337
45°	426	429	443	454	458	329
55°	313	314	322	331	334	280
65°	204	204	207	211	214	202
75°	104	103	104	104	104	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°	749.6	749.6	749.6	749.6	749.6
2.5°	747.7	747.7	748.6	749.6	750.5
5°	743.9	743.9	743.9	746.7	747.7
7.5°	736.4	737.3	738.2	741.1	743.0
10°	727.9	728.8	730.7	735.4	737.3
12.5°	716.6	719.4	722.2	728.8	731.6
15°	704.3	706.2	712.8	719.4	724.1
17.5°	691.1	692.0	699.6	709.0	710.9
20°	672.2	675.1	684.5	693.9	698.6
22.5°	655.3	657.2	667.5	679.8	683.6
25°	634.5	636.4	647.7	660.0	666.6
27.5°	612.8	614.7	627.0	640.2	644.9
30°	589.3	591.2	603.4	617.6	622.3
32.5°	564.8	566.6	579.8	592.1	598.7
35°	539.3	540.2	554.4	567.6	573.2
37.5°	511.0	513.8	527.0	540.2	546.8
40°	482.7	485.6	500.6	512.9	517.6
42.5°	456.3	460.1	472.4	483.7	488.4
45°	426.2	429.0	443.1	453.5	458.2
47.5°	398.8	401.6	413.9	424.3	427.1
50°	370.5	372.4	382.8	392.2	396.0
52.5°	342.2	343.2	352.6	362.0	364.9
55°	313.0	314.0	322.4	330.9	333.8
57.5°	285.7	285.7	293.2	299.8	302.6
60°	256.5	256.5	263.0	269.6	272.5
62.5°	229.1	229.1	235.7	240.4	244.2
65°	203.7	203.7	207.4	211.2	214.0
67.5°	179.1	176.3	180.1	184.8	183.9
70°	153.7	150.9	153.7	155.6	156.5
72.5°	128.2	126.3	128.2	129.2	131.1
75°	103.7	102.8	103.7	103.7	103.7
77.5°	83.0	80.1	82.0	81.1	80.1
80°	61.3	60.3	59.4	58.5	59.4
82.5°	42.4	41.5	41.5	39.6	39.6
85°	24.5	23.6	23.6	21.7	21.7
87.5°	9.4	9.4	8.5	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)