

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: P296488

Luminaire Tested: **22RLN-LD5-20-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296488
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-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1635.0 lumens
Efficiency: N/A
Efficacy: 107.2 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

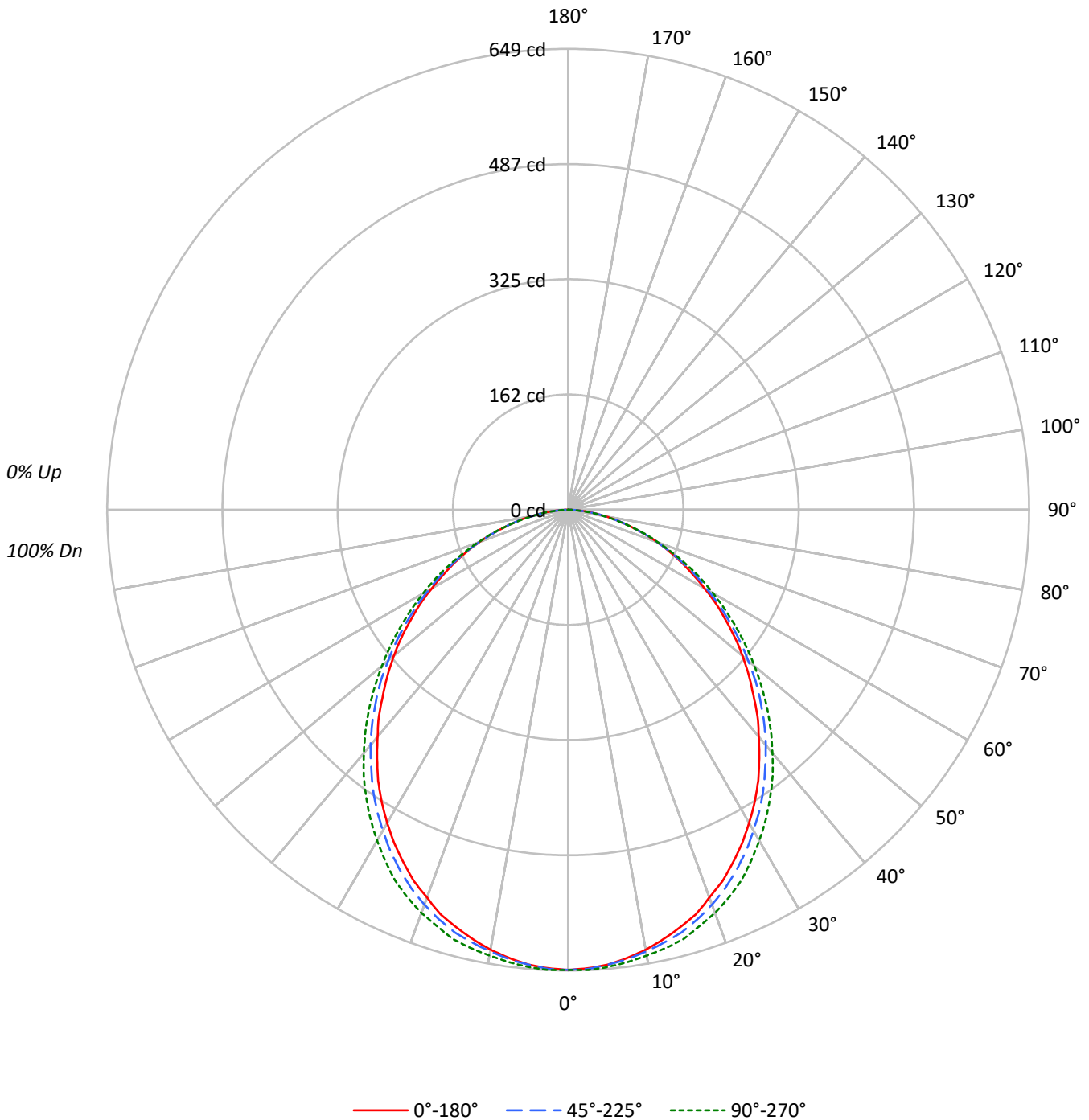
Input Watts (W): 15.252
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36					36			
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1744	1744	1744
5°	1737	1737	1746
10°	1720	1726	1742
15°	1696	1717	1744
20°	1664	1695	1730
25°	1629	1663	1711
30°	1583	1621	1672
35°	1532	1575	1628
40°	1466	1521	1572
45°	1402	1458	1508
50°	1341	1386	1433
55°	1270	1308	1354
60°	1193	1224	1268
65°	1121	1142	1178
70°	1046	1046	1065
75°	933	933	933
80°	821	797	797
85°	655	630	577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	3.7
10°-20°	173.8	10.6
20°-30°	258.1	15.8
30°-40°	299.6	18.3
40°-50°	295.0	18.0
50°-60°	249.6	15.3
60°-70°	178.0	10.9
70°-80°	95.7	5.9
80°-90°	24.1	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°	493.0	30.2
0°-40°	792.6	48.5
0°-60°	1337.2	81.8
0°-90°	1635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	648	648	648	648	648	
5°	643	643	643	646	646	61
15°	609	611	616	622	626	172
25°	549	550	560	571	576	252
35°	466	467	479	491	496	291
45°	368	371	383	392	396	285
55°	271	272	279	286	289	242
65°	176	176	179	183	185	175
75°	90	89	90	90	90	96
85°	21	20	20	19	19	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	648.1	648.1	648.1	648.1	648.1
2.5°	646.4	646.4	647.3	648.1	648.9
5°	643.2	643.2	643.2	645.6	646.4
7.5°	636.7	637.5	638.3	640.7	642.4
10°	629.3	630.1	631.8	635.9	637.5
12.5°	619.5	622.0	624.4	630.1	632.6
15°	608.9	610.6	616.3	622.0	626.1
17.5°	597.5	598.4	604.9	613.0	614.7
20°	581.2	583.7	591.8	600.0	604.1
22.5°	566.6	568.2	577.2	587.8	591.0
25°	548.6	550.3	560.0	570.6	576.3
27.5°	529.9	531.5	542.1	553.5	557.6
30°	509.5	511.1	521.7	534.0	538.0
32.5°	488.3	489.9	501.3	511.9	517.6
35°	466.3	467.1	479.3	490.7	495.6
37.5°	441.8	444.3	455.7	467.1	472.8
40°	417.4	419.8	432.9	443.5	447.5
42.5°	394.6	397.8	408.4	418.2	422.3
45°	368.5	370.9	383.1	392.1	396.2
47.5°	344.8	347.3	357.9	366.8	369.3
50°	320.4	322.0	331.0	339.1	342.4
52.5°	295.9	296.7	304.9	313.0	315.5
55°	270.6	271.5	278.8	286.1	288.6
57.5°	247.0	247.0	253.5	259.2	261.7
60°	221.7	221.7	227.4	233.1	235.6
62.5°	198.1	198.1	203.8	207.9	211.1
65°	176.1	176.1	179.3	182.6	185.0
67.5°	154.9	152.4	155.7	159.8	159.0
70°	132.9	130.4	132.9	134.5	135.3
72.5°	110.9	109.2	110.9	111.7	113.3
75°	89.7	88.9	89.7	89.7	89.7
77.5°	71.7	69.3	70.9	70.1	69.3
80°	53.0	52.2	51.4	50.5	51.4
82.5°	36.7	35.9	35.9	34.2	34.2
85°	21.2	20.4	20.4	18.7	18.7
87.5°	8.2	8.2	7.3	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)