

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: P296457

Luminaire Tested: **22RLN-LD5-20-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296457
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-L93050-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: 1561.0 lumens
Efficiency: N/A
Efficacy: 98.7 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

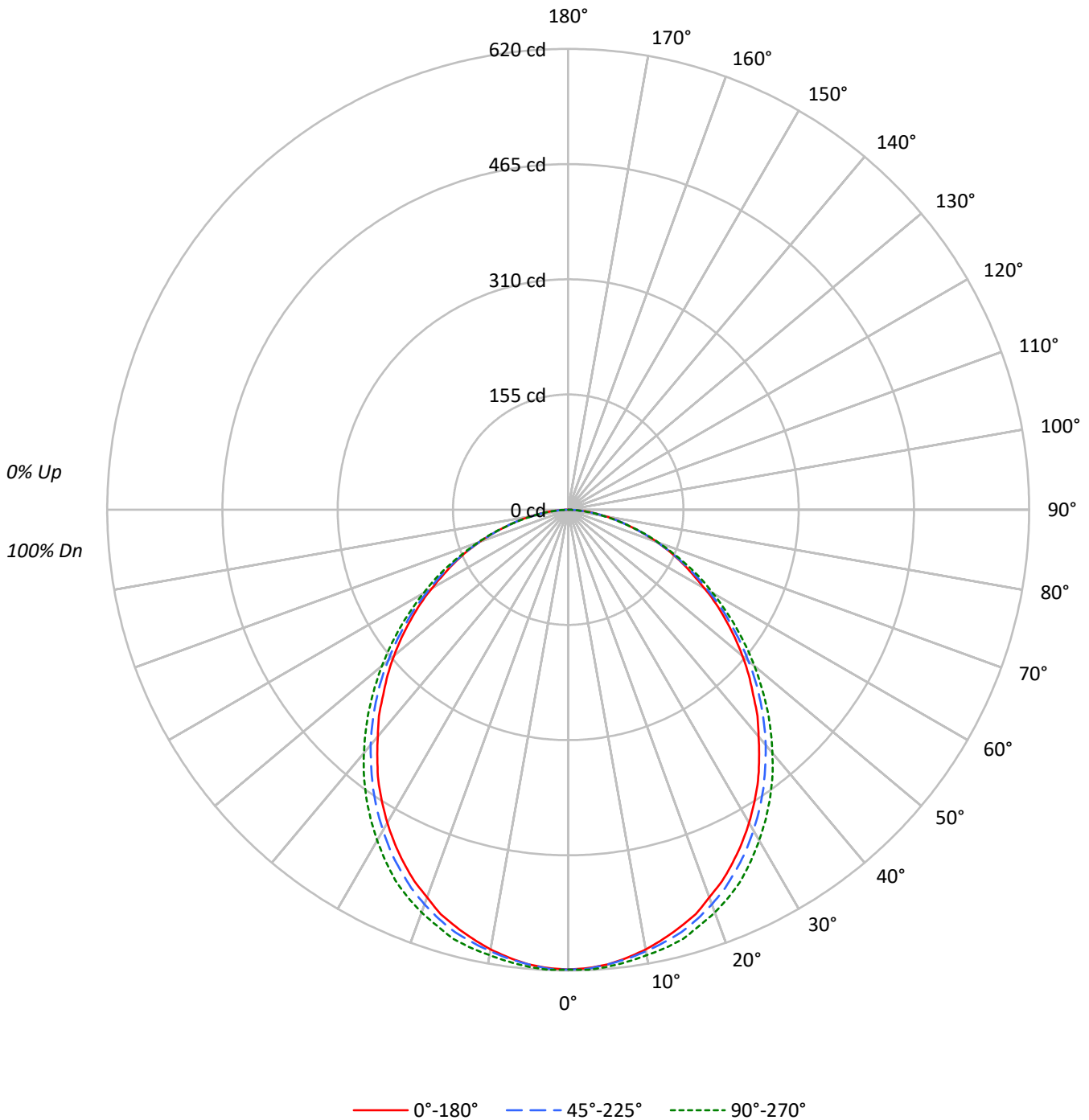
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	1665	1665	1665
5°	1659	1659	1667
10°	1642	1648	1663
15°	1620	1639	1665
20°	1589	1618	1651
25°	1555	1588	1634
30°	1511	1548	1596
35°	1463	1503	1554
40°	1400	1452	1501
45°	1339	1392	1440
50°	1281	1323	1369
55°	1212	1249	1293
60°	1139	1168	1210
65°	1070	1090	1125
70°	998	998	1017
75°	890	890	890
80°	784	759	759
85°	624	602	553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	3.7
10°-20°	165.9	10.6
20°-30°	246.5	15.8
30°-40°	286.0	18.3
40°-50°	281.6	18.0
50°-60°	238.3	15.3
60°-70°	170.0	10.9
70°-80°	91.3	5.9
80°-90°	23.0	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°	470.7	30.2
0°-40°	756.7	48.5
0°-60°	1276.7	81.8
0°-90°	1561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	619	619	619	619	619	
5°	614	614	614	616	617	58
15°	581	583	588	594	598	164
25°	524	525	535	545	550	241
35°	445	446	458	468	473	278
45°	352	354	366	374	378	272
55°	258	259	266	273	276	231
65°	168	168	171	174	177	167
75°	86	85	86	86	86	92
85°	20	20	20	18	18	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	618.7	618.7	618.7	618.7	618.7
2.5°	617.2	617.2	618.0	618.7	619.5
5°	614.1	614.1	614.1	616.4	617.2
7.5°	607.9	608.6	609.4	611.7	613.3
10°	600.8	601.6	603.2	607.1	608.6
12.5°	591.5	593.8	596.2	601.6	604.0
15°	581.4	582.9	588.4	593.8	597.7
17.5°	570.5	571.3	577.5	585.3	586.8
20°	554.9	557.3	565.0	572.8	576.7
22.5°	540.9	542.5	551.0	561.2	564.3
25°	523.8	525.4	534.7	544.8	550.3
27.5°	505.9	507.4	517.6	528.5	532.4
30°	486.4	488.0	498.1	509.8	513.7
32.5°	466.2	467.8	478.7	488.8	494.2
35°	445.2	446.0	457.6	468.5	473.2
37.5°	421.8	424.2	435.1	446.0	451.4
40°	398.5	400.8	413.3	423.4	427.3
42.5°	376.7	379.8	389.9	399.3	403.2
45°	351.8	354.1	365.8	374.4	378.3
47.5°	329.2	331.6	341.7	350.2	352.6
50°	305.9	307.4	316.0	323.8	326.9
52.5°	282.5	283.3	291.1	298.9	301.2
55°	258.4	259.2	266.2	273.2	275.5
57.5°	235.8	235.8	242.1	247.5	249.8
60°	211.7	211.7	217.1	222.6	224.9
62.5°	189.1	189.1	194.6	198.5	201.6
65°	168.1	168.1	171.2	174.3	176.7
67.5°	147.9	145.5	148.7	152.5	151.8
70°	126.9	124.5	126.9	128.4	129.2
72.5°	105.8	104.3	105.8	106.6	108.2
75°	85.6	84.8	85.6	85.6	85.6
77.5°	68.5	66.2	67.7	66.9	66.2
80°	50.6	49.8	49.0	48.3	49.0
82.5°	35.0	34.2	34.2	32.7	32.7
85°	20.2	19.5	19.5	17.9	17.9
87.5°	7.8	7.8	7.0	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)