

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: P296678

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296678
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-LD5-31-RDP-UNV-L92765-W2A1-U-5000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2358.0 lumens
Efficiency: N/A
Efficacy: 94.3 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

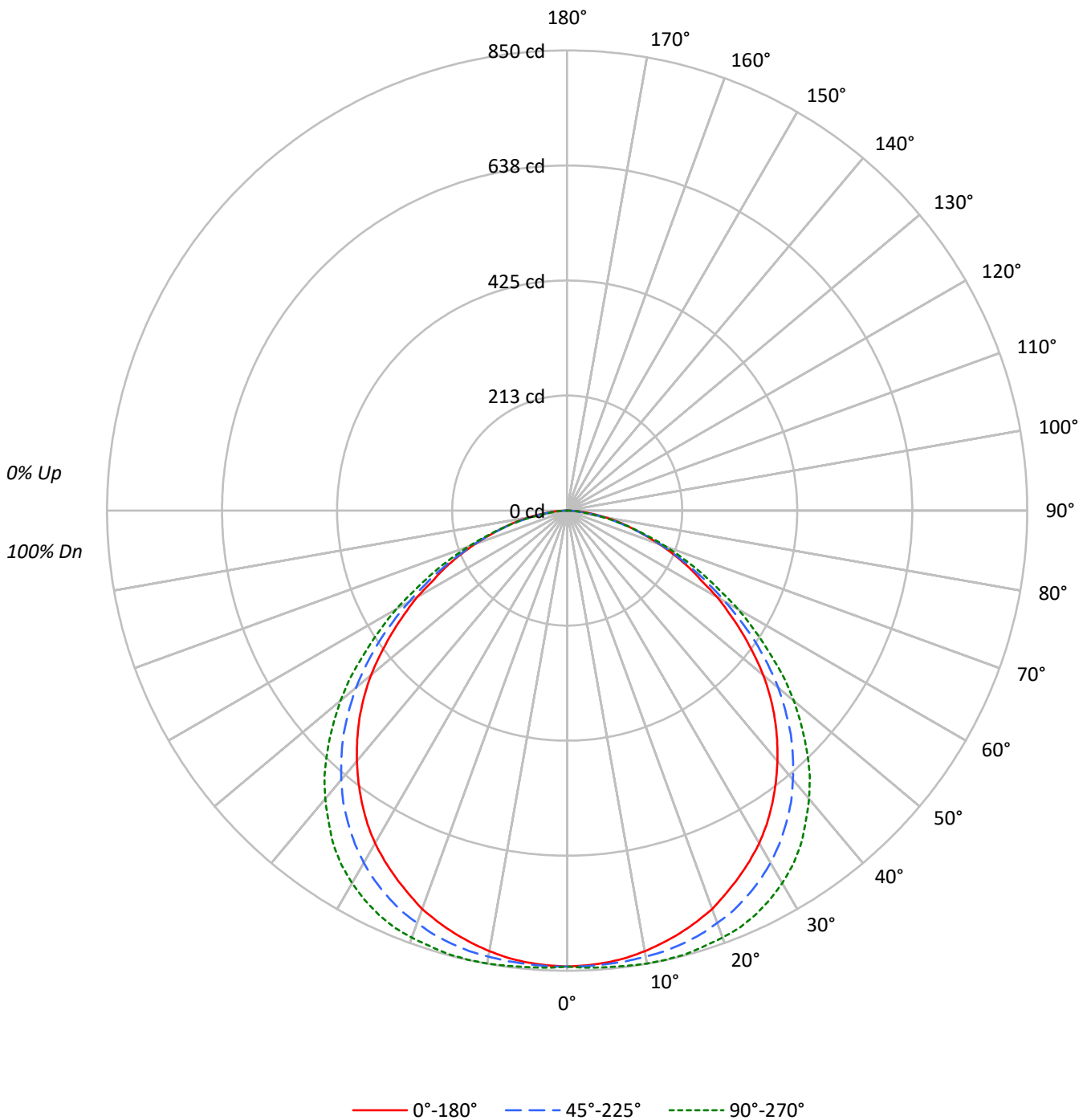
Input Watts (W): 25.017
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	103	99	96	98	95	93	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	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2267	2267	2267
5°	2264	2271	2287
10°	2258	2286	2321
15°	2250	2306	2363
20°	2243	2321	2404
25°	2222	2334	2445
30°	2205	2335	2469
35°	2170	2317	2473
40°	2123	2280	2442
45°	2064	2223	2382
50°	1981	2131	2288
55°	1854	1996	2131
60°	1723	1816	1964
65°	1580	1635	1745
70°	1430	1452	1521
75°	1260	1230	1275
80°	1096	1006	961
85°	889	667	577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	3.4
10°-20°	233.9	9.9
20°-30°	362.3	15.4
30°-40°	441.0	18.7
40°-50°	449.1	19.0
50°-60°	378.8	16.1
60°-70°	256.2	10.9
70°-80°	128.0	5.4
80°-90°	28.5	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°	676.4	28.7
0°-40°	1117.4	47.4
0°-60°	1945.3	82.5
0°-90°	2358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	838	839	841	845	847	80
15°	808	813	828	842	848	228
25°	748	760	786	812	824	345
35°	661	675	705	738	753	413
45°	542	552	584	614	626	418
55°	395	401	426	446	454	354
65°	248	244	257	268	274	245
75°	121	117	118	120	123	130
85°	29	24	22	19	19	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.3	842.3	842.3	842.3	842.3
2.5°	840.8	840.8	842.3	843.7	845.2
5°	838.0	839.4	840.8	845.2	846.6
7.5°	833.6	835.1	839.4	845.2	848.1
10°	826.4	829.3	836.5	845.2	849.5
12.5°	817.8	822.1	833.6	843.7	849.5
15°	807.7	813.4	827.9	842.3	848.1
17.5°	796.1	803.3	820.7	836.5	843.7
20°	783.2	791.8	810.6	830.7	839.4
22.5°	765.8	777.4	800.5	823.5	833.6
25°	748.5	760.1	786.0	812.0	823.5
27.5°	729.8	742.8	770.2	799.0	810.6
30°	709.6	721.1	751.4	781.7	794.7
32.5°	686.5	698.1	729.8	761.5	775.9
35°	660.6	675.0	705.3	738.4	752.9
37.5°	633.2	646.1	679.3	711.0	724.0
40°	604.3	617.3	649.0	682.2	695.2
42.5°	574.0	587.0	617.3	649.0	663.4
45°	542.3	552.4	584.1	614.4	625.9
47.5°	509.1	516.3	546.6	575.5	587.0
50°	473.1	480.3	509.1	535.1	546.6
52.5°	434.1	439.9	467.3	490.4	503.4
55°	395.2	401.0	425.5	445.7	454.3
57.5°	356.2	359.1	380.8	401.0	409.6
60°	320.2	320.2	337.5	353.4	364.9
62.5°	278.4	282.7	295.7	311.5	315.9
65°	248.1	243.7	256.7	268.3	274.0
67.5°	213.5	210.6	219.2	229.3	232.2
70°	181.7	177.4	184.6	190.4	193.3
72.5°	148.6	147.1	150.0	154.3	155.8
75°	121.2	116.8	118.3	119.7	122.6
77.5°	96.6	89.4	90.9	89.4	90.9
80°	70.7	64.9	64.9	63.5	62.0
82.5°	47.6	44.7	41.8	38.9	37.5
85°	28.8	24.5	21.6	18.7	18.7
87.5°	11.5	8.7	7.2	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)