

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: P296672

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296672
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-LD5-25-RDP-UNV-L92765-W2A1-U-6500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1897.0 lumens
Efficiency: N/A
Efficacy: 95.8 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

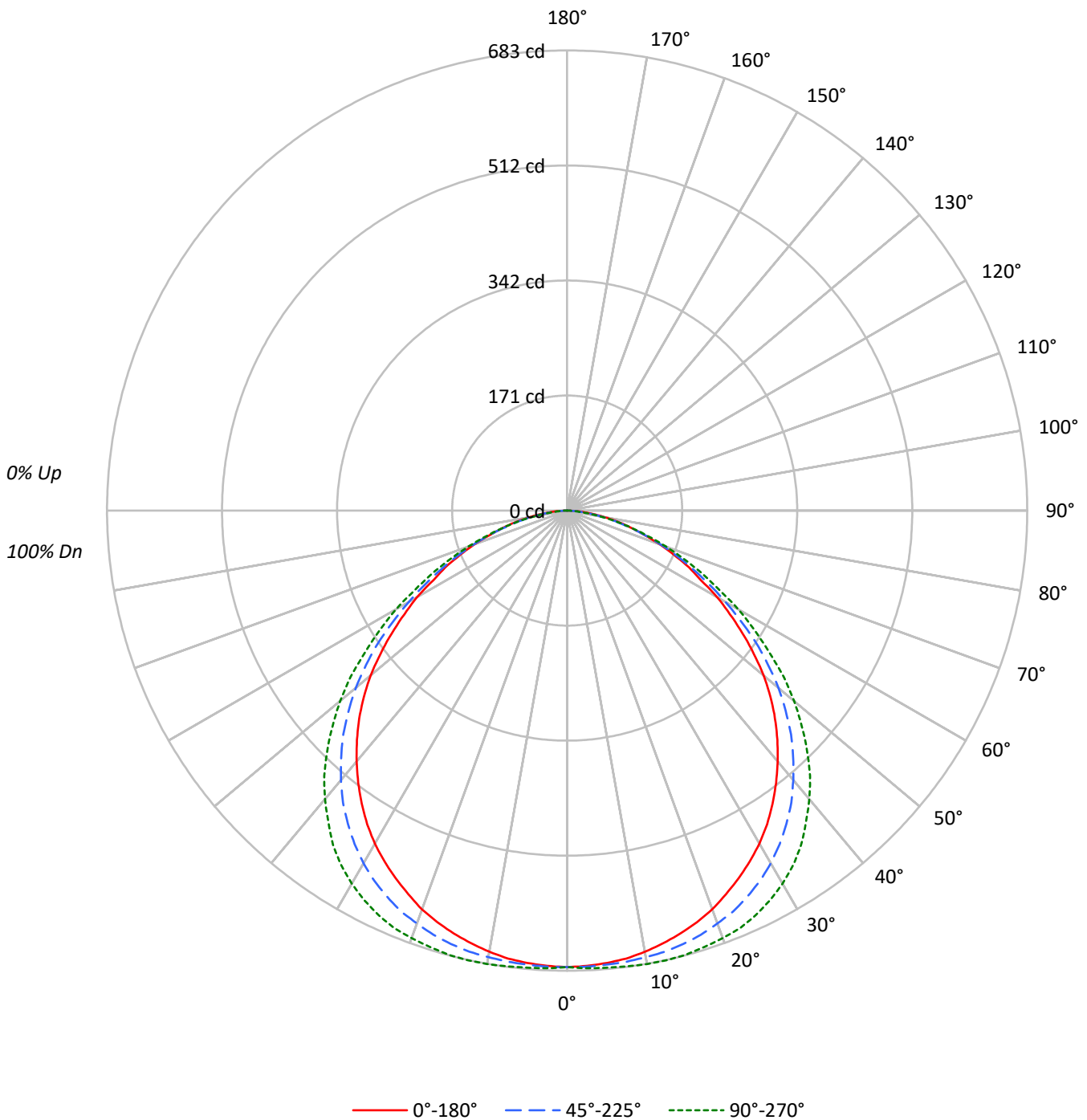
Input Watts (W): 19.809
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1823	1823	1823
5°	1821	1827	1840
10°	1817	1839	1867
15°	1810	1855	1901
20°	1804	1867	1934
25°	1788	1878	1967
30°	1774	1878	1986
35°	1746	1864	1990
40°	1708	1834	1965
45°	1660	1788	1917
50°	1593	1715	1841
55°	1491	1606	1715
60°	1386	1461	1580
65°	1271	1315	1404
70°	1150	1168	1223
75°	1014	989	1025
80°	882	809	773
85°	716	537	466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	3.4
10°-20°	188.1	9.9
20°-30°	291.5	15.4
30°-40°	354.8	18.7
40°-50°	361.3	19.0
50°-60°	304.7	16.1
60°-70°	206.1	10.9
70°-80°	103.0	5.4
80°-90°	22.9	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°	544.2	28.7
0°-40°	898.9	47.4
0°-60°	1565.0	82.5
0°-90°	1897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	678	678	678	678	678	
5°	674	675	676	680	681	64
15°	650	654	666	678	682	183
25°	602	612	632	653	662	278
35°	531	543	567	594	606	332
45°	436	444	470	494	504	336
55°	318	323	342	358	366	284
65°	200	196	206	216	220	197
75°	98	94	95	96	99	104
85°	23	20	17	15	15	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	677.6	677.6	677.6	677.6	677.6
2.5°	676.5	676.5	677.6	678.8	679.9
5°	674.1	675.3	676.5	679.9	681.1
7.5°	670.7	671.8	675.3	679.9	682.3
10°	664.9	667.2	673.0	679.9	683.4
12.5°	657.9	661.4	670.7	678.8	683.4
15°	649.8	654.4	666.0	677.6	682.3
17.5°	640.5	646.3	660.2	673.0	678.8
20°	630.0	637.0	652.1	668.3	675.3
22.5°	616.1	625.4	644.0	662.5	670.7
25°	602.2	611.5	632.4	653.2	662.5
27.5°	587.1	597.6	619.6	642.8	652.1
30°	570.9	580.1	604.5	628.9	639.3
32.5°	552.3	561.6	587.1	612.6	624.2
35°	531.4	543.0	567.4	594.1	605.7
37.5°	509.4	519.8	546.5	572.0	582.5
40°	486.2	496.6	522.1	548.8	559.3
42.5°	461.8	472.2	496.6	522.1	533.7
45°	436.3	444.4	469.9	494.3	503.6
47.5°	409.6	415.4	439.8	463.0	472.2
50°	380.6	386.4	409.6	430.5	439.8
52.5°	349.3	353.9	375.9	394.5	404.9
55°	317.9	322.6	342.3	358.5	365.5
57.5°	286.6	288.9	306.3	322.6	329.5
60°	257.6	257.6	271.5	284.3	293.6
62.5°	223.9	227.4	237.9	250.6	254.1
65°	199.6	196.1	206.5	215.8	220.5
67.5°	171.7	169.4	176.4	184.5	186.8
70°	146.2	142.7	148.5	153.2	155.5
72.5°	119.5	118.4	120.7	124.2	125.3
75°	97.5	94.0	95.1	96.3	98.6
77.5°	77.7	71.9	73.1	71.9	73.1
80°	56.9	52.2	52.2	51.1	49.9
82.5°	38.3	36.0	33.6	31.3	30.2
85°	23.2	19.7	17.4	15.1	15.1
87.5°	9.3	7.0	5.8	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)