

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: P296497

Luminaire Tested: **22RLN-LD5-25-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296497
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-LD5-25-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: 2009.0 lumens
Efficiency: N/A
Efficacy: 107.5 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

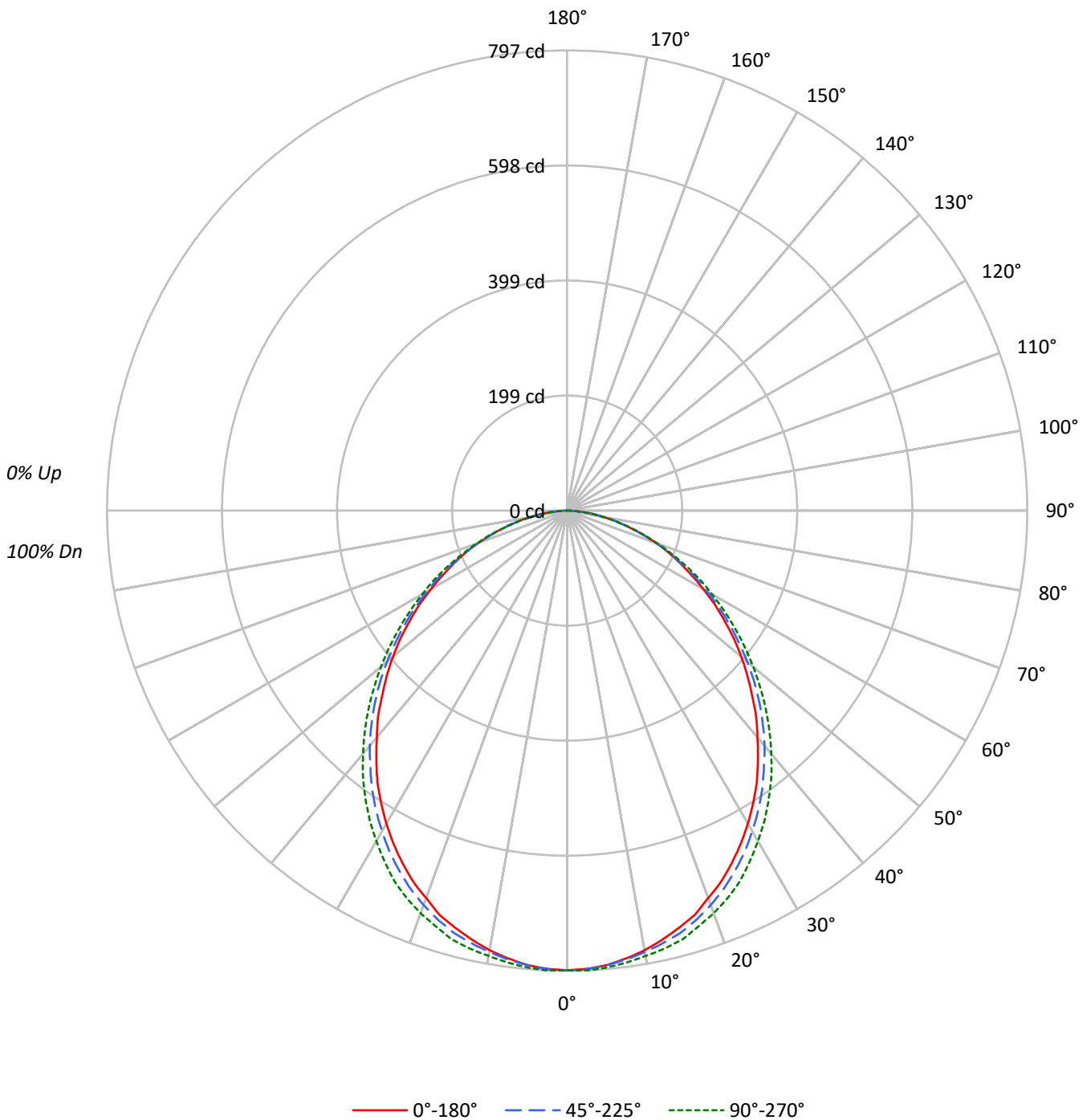
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2143	2143	2143
5°	2135	2135	2146
10°	2113	2121	2140
15°	2084	2110	2143
20°	2045	2082	2125
25°	2002	2043	2103
30°	1945	1992	2054
35°	1882	1935	2001
40°	1802	1868	1932
45°	1723	1792	1853
50°	1648	1703	1761
55°	1560	1607	1664
60°	1467	1504	1558
65°	1378	1403	1448
70°	1285	1285	1308
75°	1146	1146	1146
80°	1009	978	978
85°	803	772	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	3.7
10°-20°	213.5	10.6
20°-30°	317.2	15.8
30°-40°	368.1	18.3
40°-50°	362.5	18.0
50°-60°	306.7	15.3
60°-70°	218.8	10.9
70°-80°	117.5	5.9
80°-90°	29.6	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°	605.8	30.2
0°-40°	973.9	48.5
0°-60°	1643.1	81.8
0°-90°	2009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2009.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	790	790	790	793	794	75
15°	748	750	757	764	769	211
25°	674	676	688	701	708	310
35°	573	574	589	603	609	358
45°	453	456	471	482	487	350
55°	333	334	343	352	355	298
65°	216	216	220	224	227	215
75°	110	109	110	110	110	118
85°	26	25	25	23	23	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	796.3	796.3	796.3	796.3	796.3
2.5°	794.3	794.3	795.3	796.3	797.3
5°	790.3	790.3	790.3	793.3	794.3
7.5°	782.3	783.3	784.3	787.3	789.3
10°	773.3	774.3	776.3	781.3	783.3
12.5°	761.3	764.3	767.3	774.3	777.3
15°	748.2	750.2	757.3	764.3	769.3
17.5°	734.2	735.2	743.2	753.3	755.3
20°	714.2	717.2	727.2	737.2	742.2
22.5°	696.2	698.2	709.2	722.2	726.2
25°	674.1	676.1	688.1	701.2	708.2
27.5°	651.1	653.1	666.1	680.1	685.1
30°	626.0	628.0	641.1	656.1	661.1
32.5°	600.0	602.0	616.0	629.0	636.1
35°	573.0	574.0	589.0	603.0	609.0
37.5°	542.9	545.9	559.9	574.0	581.0
40°	512.9	515.9	531.9	544.9	549.9
42.5°	484.8	488.8	501.8	513.9	518.9
45°	452.8	455.8	470.8	481.8	486.8
47.5°	423.7	426.7	439.7	450.7	453.8
50°	393.7	395.7	406.7	416.7	420.7
52.5°	363.6	364.6	374.6	384.6	387.6
55°	332.6	333.6	342.6	351.6	354.6
57.5°	303.5	303.5	311.5	318.5	321.5
60°	272.5	272.5	279.5	286.5	289.5
62.5°	243.4	243.4	250.4	255.4	259.4
65°	216.4	216.4	220.4	224.4	227.4
67.5°	190.3	187.3	191.3	196.3	195.3
70°	163.3	160.3	163.3	165.3	166.3
72.5°	136.2	134.2	136.2	137.2	139.2
75°	110.2	109.2	110.2	110.2	110.2
77.5°	88.1	85.1	87.1	86.1	85.1
80°	65.1	64.1	63.1	62.1	63.1
82.5°	45.1	44.1	44.1	42.1	42.1
85°	26.0	25.0	25.0	23.0	23.0
87.5°	10.0	10.0	9.0	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)