

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: P291955

Luminaire Tested: **22GR-LD5-40-F125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-F125-UNV-L83050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4078.0 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

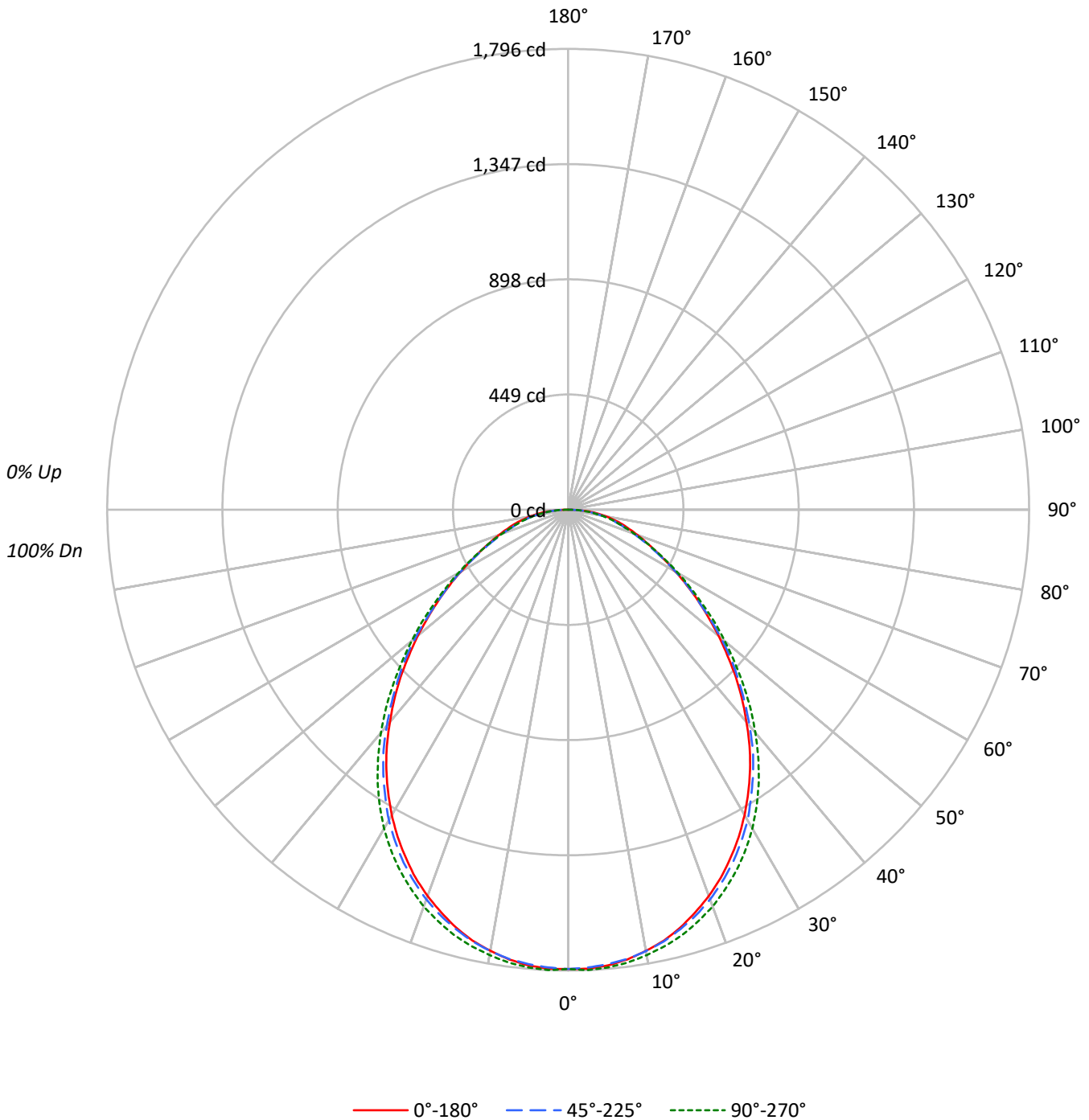
Input Watts (W): 32.364
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4818	4818	4818
5°	4816	4803	4836
10°	4770	4773	4817
15°	4698	4713	4782
20°	4588	4628	4712
25°	4445	4506	4605
30°	4269	4343	4457
35°	4060	4125	4252
40°	3796	3859	3985
45°	3514	3569	3673
50°	3201	3252	3335
55°	2890	2899	2983
60°	2592	2602	2664
65°	2362	2314	2368
70°	2249	2122	2159
75°	2262	2046	2057
80°	2346	2067	2053
85°	2572	2192	2075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	4.1
10°-20°	477.8	11.7
20°-30°	699.3	17.1
30°-40°	786.2	19.3
40°-50°	725.1	17.8
50°-60°	558.8	13.7
60°-70°	368.8	9.0
70°-80°	214.6	5.3
80°-90°	78.2	1.9
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°	1346.2	33.0
0°-40°	2132.5	52.3
0°-60°	3416.4	83.8
0°-90°	4078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1790	1790	1790	1790	1790	
5°	1783	1779	1778	1786	1790	169
15°	1686	1686	1692	1707	1716	475
25°	1497	1504	1518	1539	1551	689
35°	1236	1241	1256	1281	1294	771
45°	924	924	938	957	965	711
55°	616	615	618	628	636	553
65°	371	369	363	366	372	372
75°	218	208	197	193	198	229
85°	83	82	71	65	67	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1790.3	1790.3	1790.3	1790.3	1790.3
2.5°	1790.3	1786.5	1785.5	1792.2	1795.9
5°	1782.7	1778.9	1778.0	1786.5	1790.3
7.5°	1767.5	1764.7	1765.7	1775.1	1779.9
10°	1745.8	1744.8	1746.7	1757.1	1762.8
12.5°	1720.2	1719.3	1723.1	1734.4	1742.0
15°	1686.2	1686.2	1691.9	1707.0	1716.5
17.5°	1645.5	1648.3	1656.8	1672.0	1682.4
20°	1602.0	1604.8	1616.2	1633.2	1645.5
22.5°	1553.7	1557.5	1568.8	1589.7	1600.1
25°	1496.9	1504.5	1517.7	1538.6	1550.9
27.5°	1438.3	1446.8	1459.1	1484.6	1496.0
30°	1373.9	1379.6	1397.6	1421.2	1434.5
32.5°	1305.8	1311.5	1326.6	1355.0	1366.3
35°	1235.8	1241.4	1255.6	1281.2	1294.4
37.5°	1160.1	1164.8	1181.8	1201.7	1215.9
40°	1080.6	1087.2	1098.6	1122.2	1134.5
42.5°	1003.0	1005.8	1018.1	1041.8	1051.3
45°	923.5	924.5	937.7	956.6	965.2
47.5°	841.2	843.1	859.2	870.5	879.0
50°	764.6	765.5	776.9	787.3	796.7
52.5°	687.9	687.9	693.6	704.9	717.2
55°	616.0	615.0	617.9	628.3	635.9
57.5°	547.9	546.9	550.7	557.3	563.0
60°	481.6	479.7	483.5	487.3	494.9
62.5°	423.0	424.9	420.1	425.8	431.5
65°	370.9	369.0	363.4	366.2	371.9
67.5°	326.4	323.6	314.1	316.0	322.7
70°	285.8	280.1	269.7	269.7	274.4
72.5°	248.9	243.2	229.9	230.9	232.8
75°	217.6	208.2	196.8	193.0	197.8
77.5°	183.6	176.0	165.6	162.8	164.6
80°	151.4	145.7	133.4	129.6	132.5
82.5°	120.2	115.4	101.2	98.4	99.4
85°	83.3	82.3	71.0	65.3	67.2
87.5°	44.5	45.4	36.9	33.1	35.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)