

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: P292114

Luminaire Tested: **22GR-LD5-40-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292114
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-L92765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3844.0 lumens
Efficiency: N/A
Efficacy: 115.1 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

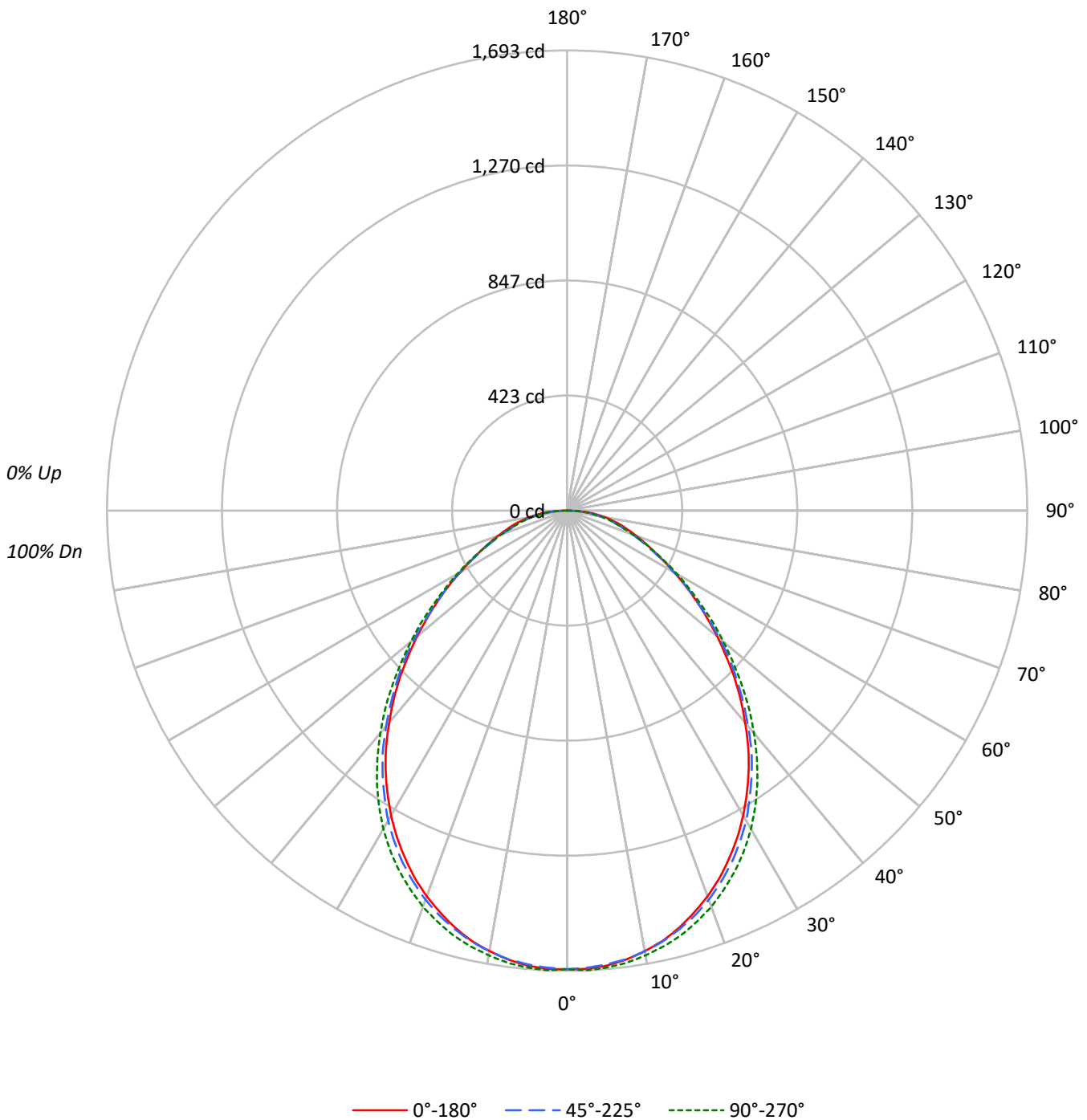
Input Watts (W): 33.387
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4541	4541	4541
5°	4539	4527	4558
10°	4497	4499	4541
15°	4428	4443	4508
20°	4324	4363	4442
25°	4189	4248	4341
30°	4024	4094	4202
35°	3827	3888	4008
40°	3578	3638	3757
45°	3313	3364	3462
50°	3017	3066	3144
55°	2724	2732	2812
60°	2443	2453	2511
65°	2226	2181	2232
70°	2120	2000	2035
75°	2132	1929	1938
80°	2211	1949	1936
85°	2424	2066	1954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.4	4.1
10°-20°	450.4	11.7
20°-30°	659.2	17.1
30°-40°	741.1	19.3
40°-50°	683.5	17.8
50°-60°	526.8	13.7
60°-70°	347.6	9.0
70°-80°	202.3	5.3
80°-90°	73.7	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°	1269.0	33.0
0°-40°	2010.1	52.3
0°-60°	3220.4	83.8
0°-90°	3844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3844.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1688	1688	1688	1688	1688	
5°	1680	1677	1676	1684	1688	159
15°	1589	1589	1595	1609	1618	447
25°	1411	1418	1431	1450	1462	649
35°	1165	1170	1184	1208	1220	726
45°	870	871	884	902	910	670
55°	581	580	582	592	599	521
65°	350	348	342	345	350	351
75°	205	196	186	182	186	216
85°	78	78	67	62	63	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1687.5	1687.5	1687.5	1687.5	1687.5
2.5°	1687.5	1684.0	1683.1	1689.3	1692.9
5°	1680.4	1676.8	1675.9	1684.0	1687.5
7.5°	1666.1	1663.4	1664.3	1673.3	1677.7
10°	1645.6	1644.7	1646.5	1656.3	1661.7
12.5°	1621.5	1620.6	1624.2	1634.9	1642.0
15°	1589.4	1589.4	1594.8	1609.0	1618.0
17.5°	1551.1	1553.7	1561.8	1576.0	1585.9
20°	1510.0	1512.7	1523.4	1539.5	1551.1
22.5°	1464.5	1468.1	1478.8	1498.4	1508.3
25°	1411.0	1418.2	1430.7	1450.3	1461.9
27.5°	1355.7	1363.8	1375.4	1399.4	1410.1
30°	1295.1	1300.4	1317.4	1339.7	1352.2
32.5°	1230.9	1236.2	1250.5	1277.2	1287.9
35°	1164.9	1170.2	1183.6	1207.7	1220.2
37.5°	1093.5	1098.0	1114.0	1132.8	1146.1
40°	1018.6	1024.8	1035.5	1057.8	1069.4
42.5°	945.4	948.1	959.7	982.0	990.9
45°	870.5	871.4	883.9	901.7	909.8
47.5°	792.9	794.7	809.9	820.6	828.6
50°	720.7	721.6	732.3	742.1	751.0
52.5°	648.4	648.4	653.8	664.5	676.1
55°	580.6	579.8	582.4	592.2	599.4
57.5°	516.4	515.5	519.1	525.3	530.7
60°	454.0	452.2	455.8	459.3	466.5
62.5°	398.7	400.5	396.0	401.4	406.7
65°	349.6	347.9	342.5	345.2	350.5
67.5°	307.7	305.0	296.1	297.9	304.1
70°	269.4	264.0	254.2	254.2	258.7
72.5°	234.6	229.2	216.7	217.6	219.4
75°	205.1	196.2	185.5	182.0	186.4
77.5°	173.0	165.9	156.1	153.4	155.2
80°	142.7	137.4	125.8	122.2	124.9
82.5°	113.3	108.8	95.4	92.8	93.7
85°	78.5	77.6	66.9	61.5	63.3
87.5°	41.9	42.8	34.8	31.2	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)