

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: P292012

Luminaire Tested: **22GR-LD5-40-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292012
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-L82765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4071.0 lumens
Efficiency: N/A
Efficacy: 124.4 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

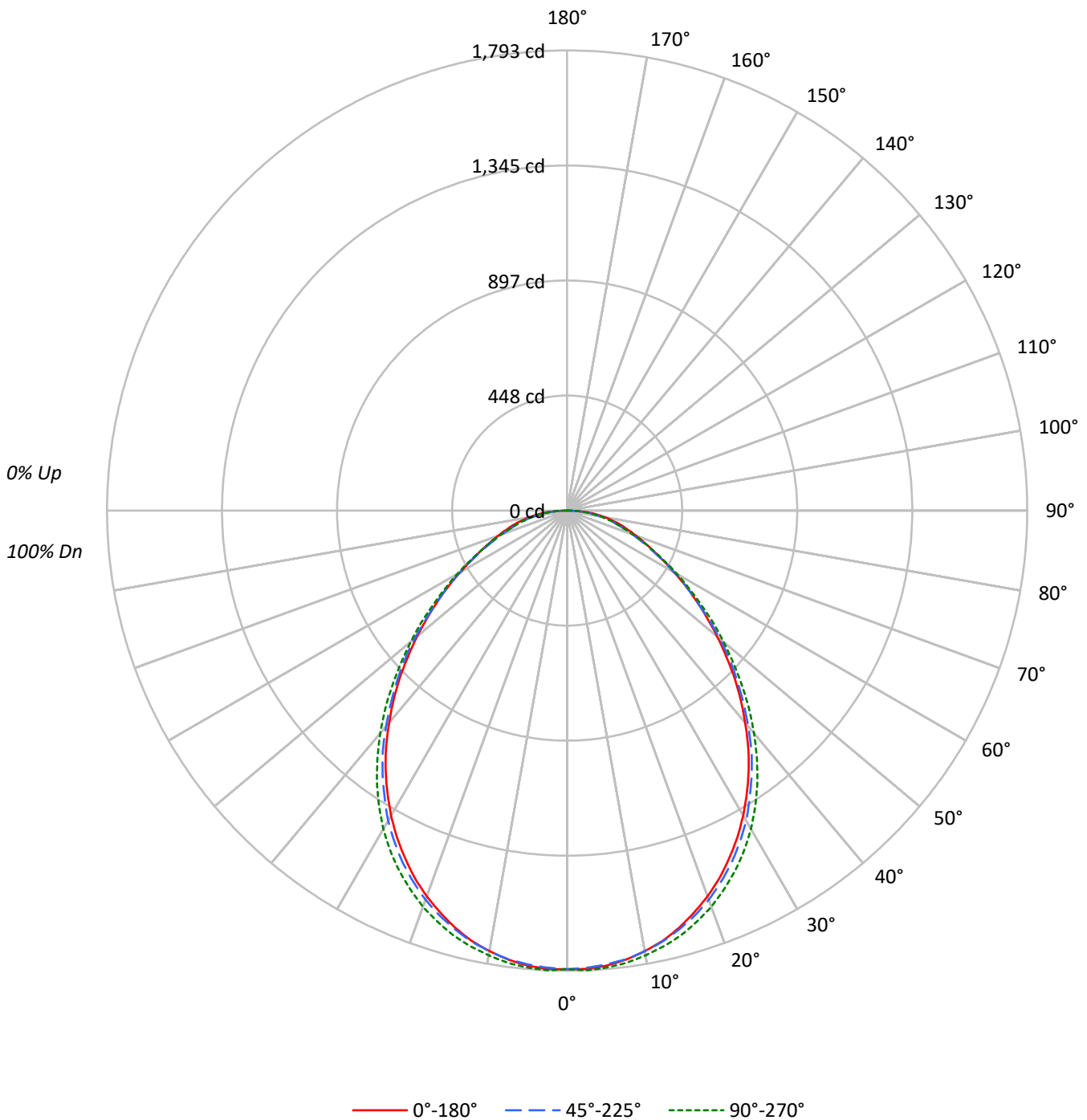
Input Watts (W): 32.736
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4809	4809	4809
5°	4807	4794	4828
10°	4762	4765	4809
15°	4690	4705	4774
20°	4580	4620	4704
25°	4437	4499	4597
30°	4262	4335	4450
35°	4052	4118	4245
40°	3789	3853	3979
45°	3508	3562	3667
50°	3195	3247	3330
55°	2885	2894	2978
60°	2588	2598	2659
65°	2358	2309	2364
70°	2245	2118	2155
75°	2259	2043	2052
80°	2342	2064	2049
85°	2566	2186	2072



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.8	4.1
10°-20°	477.0	11.7
20°-30°	698.1	17.1
30°-40°	784.9	19.3
40°-50°	723.8	17.8
50°-60°	557.9	13.7
60°-70°	368.1	9.0
70°-80°	214.3	5.3
80°-90°	78.1	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°	1343.9	33.0
0°-40°	2128.8	52.3
0°-60°	3410.5	83.8
0°-90°	4071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4071.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1787	1787	1787	1787	1787	
5°	1780	1776	1775	1783	1787	169
15°	1683	1683	1689	1704	1714	474
25°	1494	1502	1515	1536	1548	687
35°	1234	1239	1254	1279	1292	769
45°	922	923	936	955	964	710
55°	615	614	617	627	635	552
65°	370	368	363	366	371	371
75°	217	208	196	193	197	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°	1787.2	1787.2	1787.2	1787.2	1787.2
2.5°	1787.2	1783.4	1782.5	1789.1	1792.9
5°	1779.6	1775.9	1774.9	1783.4	1787.2
7.5°	1764.5	1761.7	1762.6	1772.1	1776.8
10°	1742.8	1741.8	1743.7	1754.1	1759.8
12.5°	1717.3	1716.3	1720.1	1731.5	1739.0
15°	1683.3	1683.3	1688.9	1704.1	1713.5
17.5°	1642.7	1645.5	1654.0	1669.1	1679.5
20°	1599.2	1602.0	1613.4	1630.4	1642.7
22.5°	1551.0	1554.8	1566.1	1586.9	1597.3
25°	1494.4	1501.9	1515.1	1535.9	1548.2
27.5°	1435.8	1444.3	1456.6	1482.1	1493.4
30°	1371.6	1377.2	1395.2	1418.8	1432.0
32.5°	1303.6	1309.2	1324.3	1352.7	1364.0
35°	1233.6	1239.3	1253.5	1279.0	1292.2
37.5°	1158.1	1162.8	1179.8	1199.6	1213.8
40°	1078.7	1085.3	1096.7	1120.3	1132.6
42.5°	1001.3	1004.1	1016.4	1040.0	1049.5
45°	921.9	922.9	936.1	955.0	963.5
47.5°	839.8	841.6	857.7	869.0	877.5
50°	763.2	764.2	775.5	785.9	795.4
52.5°	686.7	686.7	692.4	703.7	716.0
55°	614.9	614.0	616.8	627.2	634.8
57.5°	546.9	546.0	549.8	556.4	562.0
60°	480.8	478.9	482.7	486.5	494.0
62.5°	422.2	424.1	419.4	425.1	430.7
65°	370.3	368.4	362.7	365.6	371.2
67.5°	325.9	323.1	313.6	315.5	322.1
70°	285.3	279.6	269.2	269.2	273.9
72.5°	248.4	242.8	229.5	230.5	232.4
75°	217.3	207.8	196.5	192.7	197.4
77.5°	183.3	175.7	165.3	162.5	164.4
80°	151.1	145.5	133.2	129.4	132.2
82.5°	120.0	115.2	101.1	98.2	99.2
85°	83.1	82.2	70.8	65.2	67.1
87.5°	44.4	45.3	36.8	33.1	35.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)