

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: P292013

Luminaire Tested: **22GR-LD5-40-F125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292013
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-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4143.0 lumens
Efficiency: N/A
Efficacy: 125.5 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

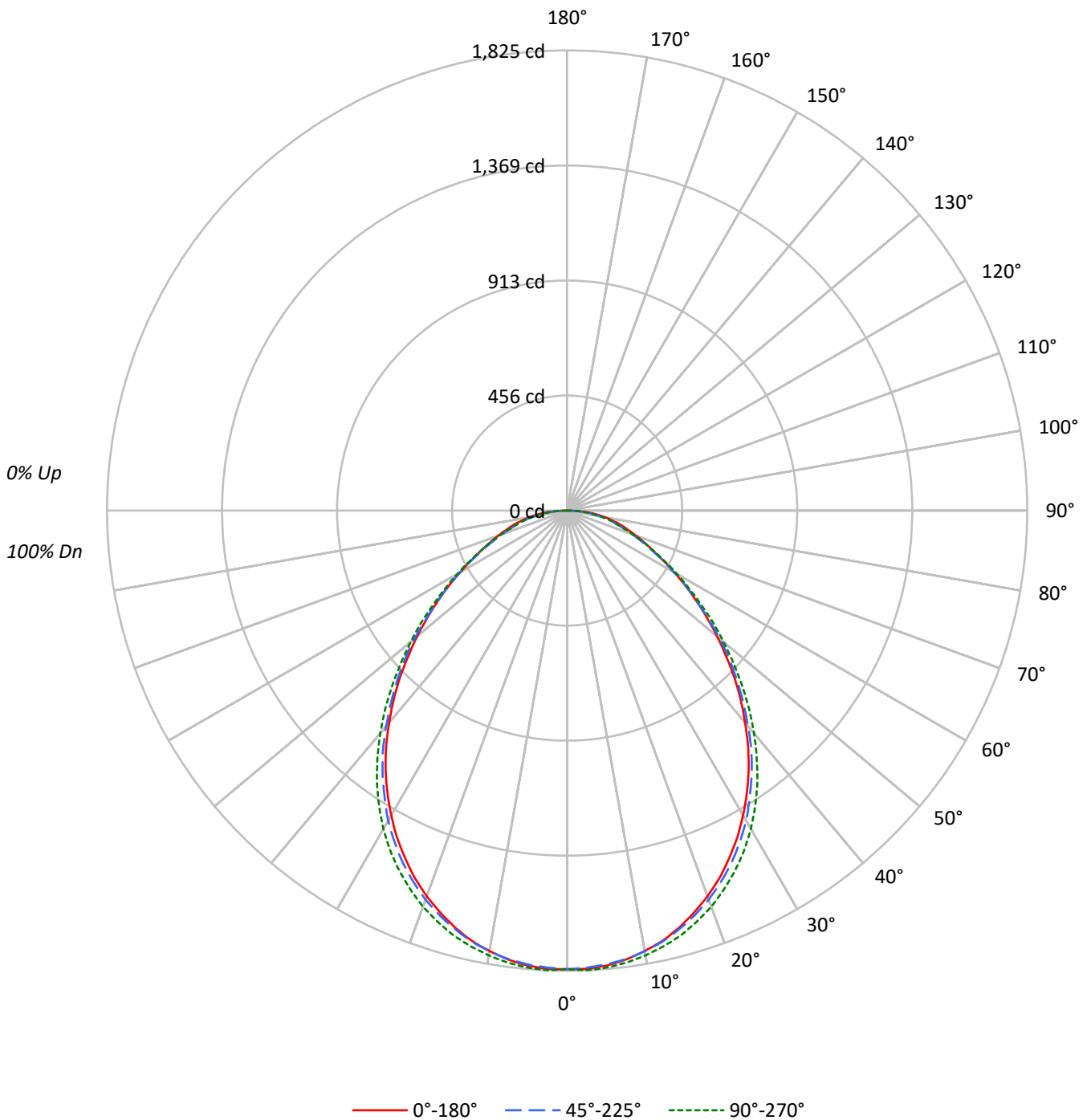
Input Watts (W): 33.015
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4894	4894	4894
5°	4892	4879	4913
10°	4846	4849	4894
15°	4773	4788	4858
20°	4661	4702	4787
25°	4516	4578	4678
30°	4337	4412	4528
35°	4124	4191	4320
40°	3856	3921	4049
45°	3570	3626	3731
50°	3252	3304	3388
55°	2936	2945	3031
60°	2633	2644	2706
65°	2399	2350	2406
70°	2284	2156	2194
75°	2299	2079	2089
80°	2383	2100	2086
85°	2612	2226	2109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.8	4.1
10°-20°	485.4	11.7
20°-30°	710.5	17.1
30°-40°	798.8	19.3
40°-50°	736.6	17.8
50°-60°	567.8	13.7
60°-70°	374.6	9.0
70°-80°	218.1	5.3
80°-90°	79.4	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°	1367.7	33.0
0°-40°	2166.5	52.3
0°-60°	3470.9	83.8
0°-90°	4143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1819	1819	1819	1819	1819	
5°	1811	1807	1806	1815	1819	172
15°	1713	1713	1719	1734	1744	482
25°	1521	1528	1542	1563	1576	699
35°	1256	1261	1276	1302	1315	783
45°	938	939	953	972	980	722
55°	626	625	628	638	646	561
65°	377	375	369	372	378	378
75°	221	212	200	196	201	233
85°	85	84	72	66	68	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1818.8	1818.8	1818.8	1818.8	1818.8
2.5°	1818.8	1814.9	1814.0	1820.7	1824.6
5°	1811.1	1807.3	1806.3	1814.9	1818.8
7.5°	1795.7	1792.8	1793.8	1803.4	1808.2
10°	1773.6	1772.7	1774.6	1785.1	1790.9
12.5°	1747.7	1746.7	1750.5	1762.1	1769.8
15°	1713.1	1713.1	1718.8	1734.2	1743.8
17.5°	1671.7	1674.6	1683.2	1698.6	1709.2
20°	1627.5	1630.4	1641.9	1659.2	1671.7
22.5°	1578.5	1582.3	1593.8	1615.0	1625.6
25°	1520.8	1528.5	1541.9	1563.1	1575.6
27.5°	1461.2	1469.8	1482.3	1508.3	1519.8
30°	1395.8	1401.6	1419.9	1443.9	1457.3
32.5°	1326.6	1332.4	1347.8	1376.6	1388.1
35°	1255.5	1261.2	1275.7	1301.6	1315.1
37.5°	1178.6	1183.4	1200.7	1220.9	1235.3
40°	1097.8	1104.5	1116.1	1140.1	1152.6
42.5°	1019.0	1021.9	1034.4	1058.4	1068.0
45°	938.2	939.2	952.7	971.9	980.5
47.5°	854.6	856.5	872.9	884.4	893.1
50°	776.7	777.7	789.2	799.8	809.4
52.5°	698.9	698.9	704.6	716.2	728.7
55°	625.8	624.9	627.7	638.3	646.0
57.5°	556.6	555.6	559.5	566.2	572.0
60°	489.3	487.4	491.2	495.1	502.8
62.5°	429.7	431.6	426.8	432.6	438.4
65°	376.8	374.9	369.1	372.0	377.8
67.5°	331.7	328.8	319.2	321.1	327.8
70°	290.3	284.5	274.0	274.0	278.8
72.5°	252.8	247.1	233.6	234.6	236.5
75°	221.1	211.5	200.0	196.1	200.9
77.5°	186.5	178.8	168.2	165.3	167.3
80°	153.8	148.0	135.5	131.7	134.6
82.5°	122.1	117.3	102.9	100.0	100.9
85°	84.6	83.6	72.1	66.3	68.3
87.5°	45.2	46.1	37.5	33.6	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)