

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: P292010

Luminaire Tested: **22GR-LD5-40-F125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292010
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-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3850.0 lumens
Efficiency: N/A
Efficacy: 119.6 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

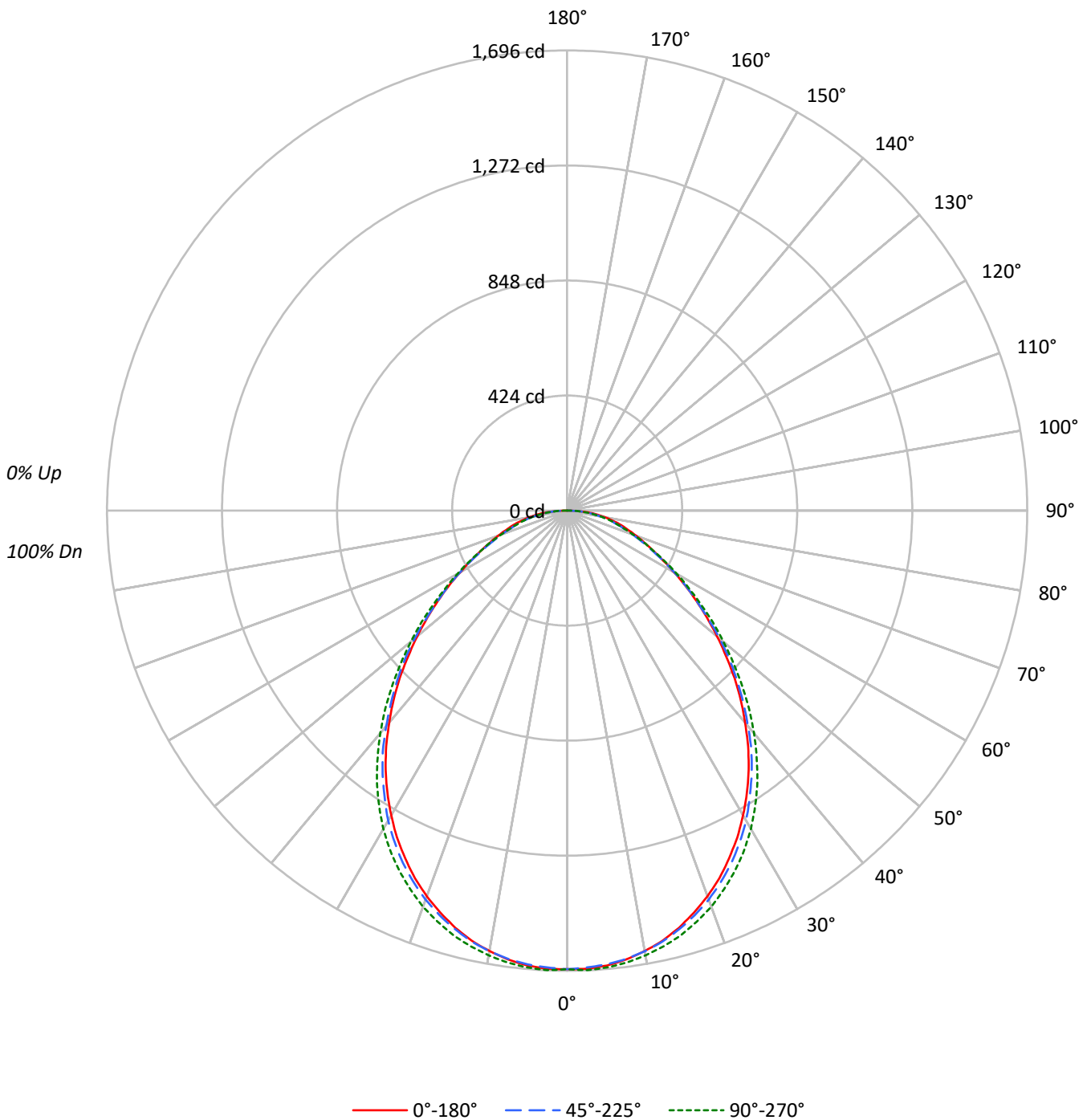
Input Watts (W): 32.178
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4548	4548	4548
5°	4546	4534	4566
10°	4504	4506	4548
15°	4435	4450	4515
20°	4331	4369	4449
25°	4196	4255	4347
30°	4030	4100	4208
35°	3833	3894	4015
40°	3584	3643	3763
45°	3318	3369	3468
50°	3022	3070	3149
55°	2729	2737	2816
60°	2447	2457	2514
65°	2230	2184	2236
70°	2123	2003	2039
75°	2137	1932	1941
80°	2214	1953	1939
85°	2427	2069	1958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.7	4.1
10°-20°	451.1	11.7
20°-30°	660.2	17.1
30°-40°	742.3	19.3
40°-50°	684.5	17.8
50°-60°	527.6	13.7
60°-70°	348.1	9.0
70°-80°	202.6	5.3
80°-90°	73.8	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°	1271.0	33.0
0°-40°	2013.3	52.3
0°-60°	3225.4	83.8
0°-90°	3850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3850.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1690	1690	1690	1690	1690	
5°	1683	1679	1679	1687	1690	160
15°	1592	1592	1597	1612	1620	448
25°	1413	1420	1433	1452	1464	650
35°	1167	1172	1185	1210	1222	727
45°	872	873	885	903	911	671
55°	582	581	583	593	600	522
65°	350	348	343	346	351	351
75°	206	196	186	182	187	216
85°	79	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°	1690.2	1690.2	1690.2	1690.2	1690.2
2.5°	1690.2	1686.6	1685.7	1692.0	1695.5
5°	1683.0	1679.4	1678.6	1686.6	1690.2
7.5°	1668.7	1666.0	1666.9	1675.9	1680.3
10°	1648.2	1647.3	1649.1	1658.9	1664.3
12.5°	1624.1	1623.2	1626.7	1637.5	1644.6
15°	1591.9	1591.9	1597.3	1611.6	1620.5
17.5°	1553.5	1556.2	1564.2	1578.5	1588.3
20°	1512.4	1515.1	1525.8	1541.9	1553.5
22.5°	1466.8	1470.4	1481.1	1500.8	1510.6
25°	1413.2	1420.4	1432.9	1452.5	1464.2
27.5°	1357.9	1365.9	1377.5	1401.6	1412.3
30°	1297.1	1302.5	1319.4	1341.8	1354.3
32.5°	1232.8	1238.1	1252.4	1279.2	1290.0
35°	1166.7	1172.0	1185.4	1209.6	1222.1
37.5°	1095.2	1099.7	1115.8	1134.5	1147.9
40°	1020.2	1026.4	1037.1	1059.5	1071.1
42.5°	946.9	949.6	961.2	983.5	992.5
45°	871.9	872.8	885.3	903.1	911.2
47.5°	794.2	796.0	811.1	821.9	829.9
50°	721.8	722.7	733.4	743.2	752.2
52.5°	649.4	649.4	654.8	665.5	677.1
55°	581.6	580.7	583.3	593.2	600.3
57.5°	517.2	516.3	519.9	526.2	531.5
60°	454.7	452.9	456.5	460.1	467.2
62.5°	399.3	401.1	396.6	402.0	407.4
65°	350.2	348.4	343.0	345.7	351.1
67.5°	308.2	305.5	296.6	298.4	304.6
70°	269.8	264.4	254.6	254.6	259.1
72.5°	234.9	229.6	217.1	218.0	219.8
75°	205.5	196.5	185.8	182.2	186.7
77.5°	173.3	166.2	156.3	153.7	155.4
80°	142.9	137.6	126.0	122.4	125.1
82.5°	113.5	109.0	95.6	92.9	93.8
85°	78.6	77.7	67.0	61.6	63.4
87.5°	42.0	42.9	34.8	31.3	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)