

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: P292053

Luminaire Tested: **22GR-LD5-40-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292053
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-L93050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3466.0 lumens
Efficiency: N/A
Efficacy: 105.0 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

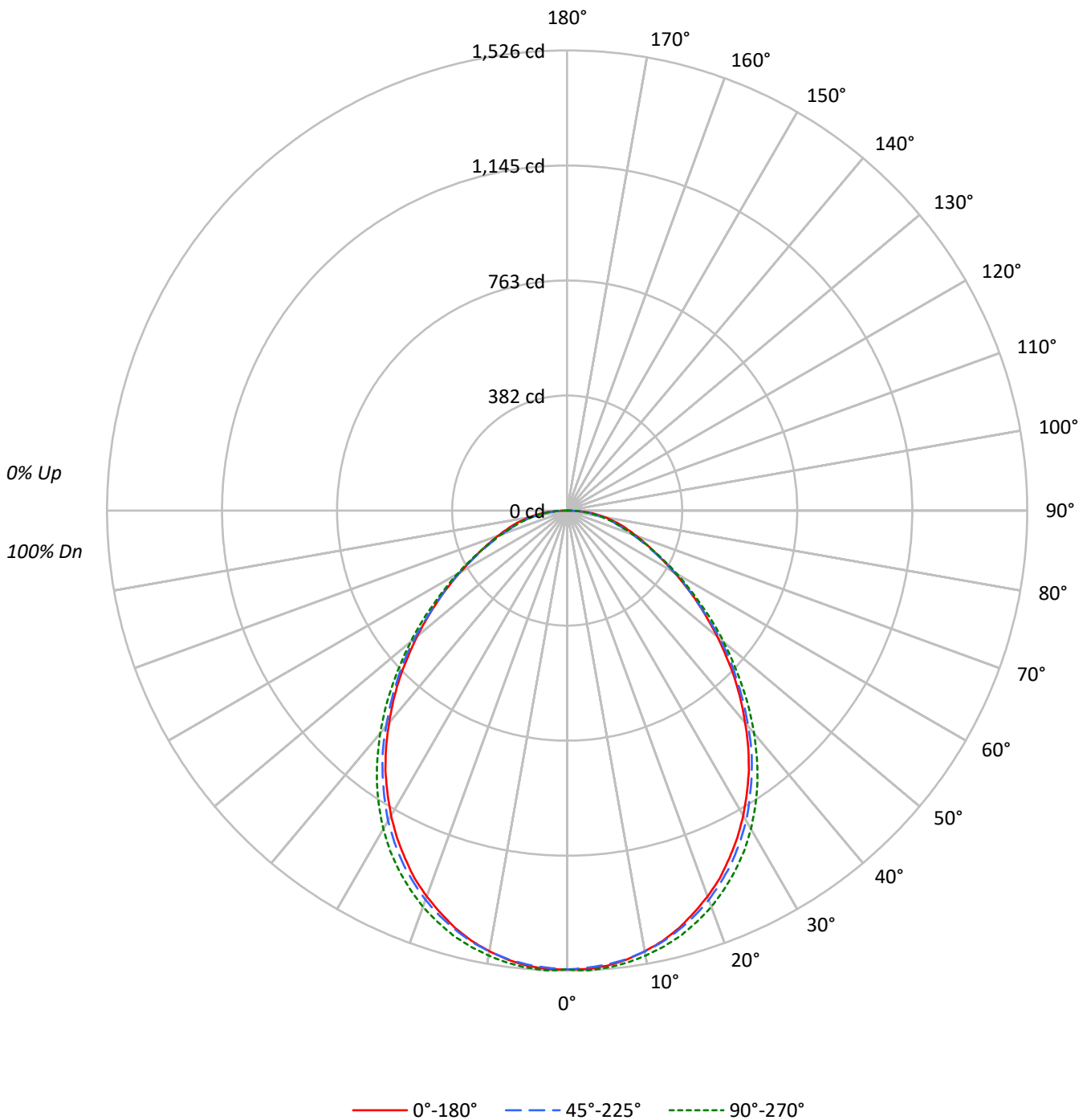
Input Watts (W): 33.015
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4095	4095	4095
5°	4093	4082	4110
10°	4054	4057	4094
15°	3992	4006	4064
20°	3899	3934	4005
25°	3778	3830	3914
30°	3628	3691	3788
35°	3450	3506	3614
40°	3226	3280	3387
45°	2987	3033	3122
50°	2720	2764	2835
55°	2456	2464	2535
60°	2203	2212	2264
65°	2008	1966	2013
70°	1911	1803	1835
75°	1923	1739	1748
80°	1994	1757	1745
85°	2186	1862	1763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	4.1
10°-20°	406.1	11.7
20°-30°	594.4	17.1
30°-40°	668.3	19.3
40°-50°	616.3	17.8
50°-60°	475.0	13.7
60°-70°	313.4	9.0
70°-80°	182.4	5.3
80°-90°	66.5	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°	1144.2	33.0
0°-40°	1812.5	52.3
0°-60°	2903.7	83.8
0°-90°	3466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3466.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1522	1522	1522	1522	1522	
5°	1515	1512	1511	1518	1522	144
15°	1433	1433	1438	1451	1459	403
25°	1272	1279	1290	1308	1318	585
35°	1050	1055	1067	1089	1100	655
45°	785	786	797	813	820	604
55°	524	523	525	534	540	470
65°	315	314	309	311	316	316
75°	185	177	167	164	168	195
85°	71	70	60	56	57	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1521.6	1521.6	1521.6	1521.6	1521.6
2.5°	1521.6	1518.4	1517.6	1523.2	1526.4
5°	1515.2	1511.9	1511.1	1518.4	1521.6
7.5°	1502.3	1499.9	1500.7	1508.7	1512.7
10°	1483.8	1483.0	1484.6	1493.4	1498.3
12.5°	1462.1	1461.3	1464.5	1474.1	1480.6
15°	1433.1	1433.1	1437.9	1450.8	1458.9
17.5°	1398.5	1401.0	1408.2	1421.1	1429.9
20°	1361.5	1364.0	1373.6	1388.1	1398.5
22.5°	1320.5	1323.7	1333.4	1351.1	1359.9
25°	1272.3	1278.7	1290.0	1307.7	1318.1
27.5°	1222.4	1229.7	1240.1	1261.8	1271.5
30°	1167.7	1172.6	1187.8	1207.9	1219.2
32.5°	1109.8	1114.7	1127.5	1151.6	1161.3
35°	1050.3	1055.1	1067.2	1088.9	1100.2
37.5°	986.0	990.0	1004.5	1021.4	1033.4
40°	918.4	924.1	933.7	953.8	964.3
42.5°	852.5	854.9	865.3	885.4	893.5
45°	784.9	785.7	797.0	813.1	820.3
47.5°	715.0	716.6	730.2	739.9	747.1
50°	649.8	650.6	660.3	669.1	677.2
52.5°	584.7	584.7	589.5	599.1	609.6
55°	523.5	522.7	525.2	534.0	540.4
57.5°	465.6	464.8	468.1	473.7	478.5
60°	409.3	407.7	411.0	414.2	420.6
62.5°	359.5	361.1	357.1	361.9	366.7
65°	315.3	313.6	308.8	311.2	316.1
67.5°	277.5	275.0	267.0	268.6	274.2
70°	242.9	238.0	229.2	229.2	233.2
72.5°	211.5	206.7	195.4	196.2	197.8
75°	185.0	176.9	167.3	164.1	168.1
77.5°	156.0	149.6	140.7	138.3	139.9
80°	128.7	123.9	113.4	110.2	112.6
82.5°	102.1	98.1	86.1	83.6	84.4
85°	70.8	70.0	60.3	55.5	57.1
87.5°	37.8	38.6	31.4	28.1	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)