

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: P292109

Luminaire Tested: **22GR-LD5-40-F125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292109
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-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: 3489.0 lumens
Efficiency: N/A
Efficacy: 107.5 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

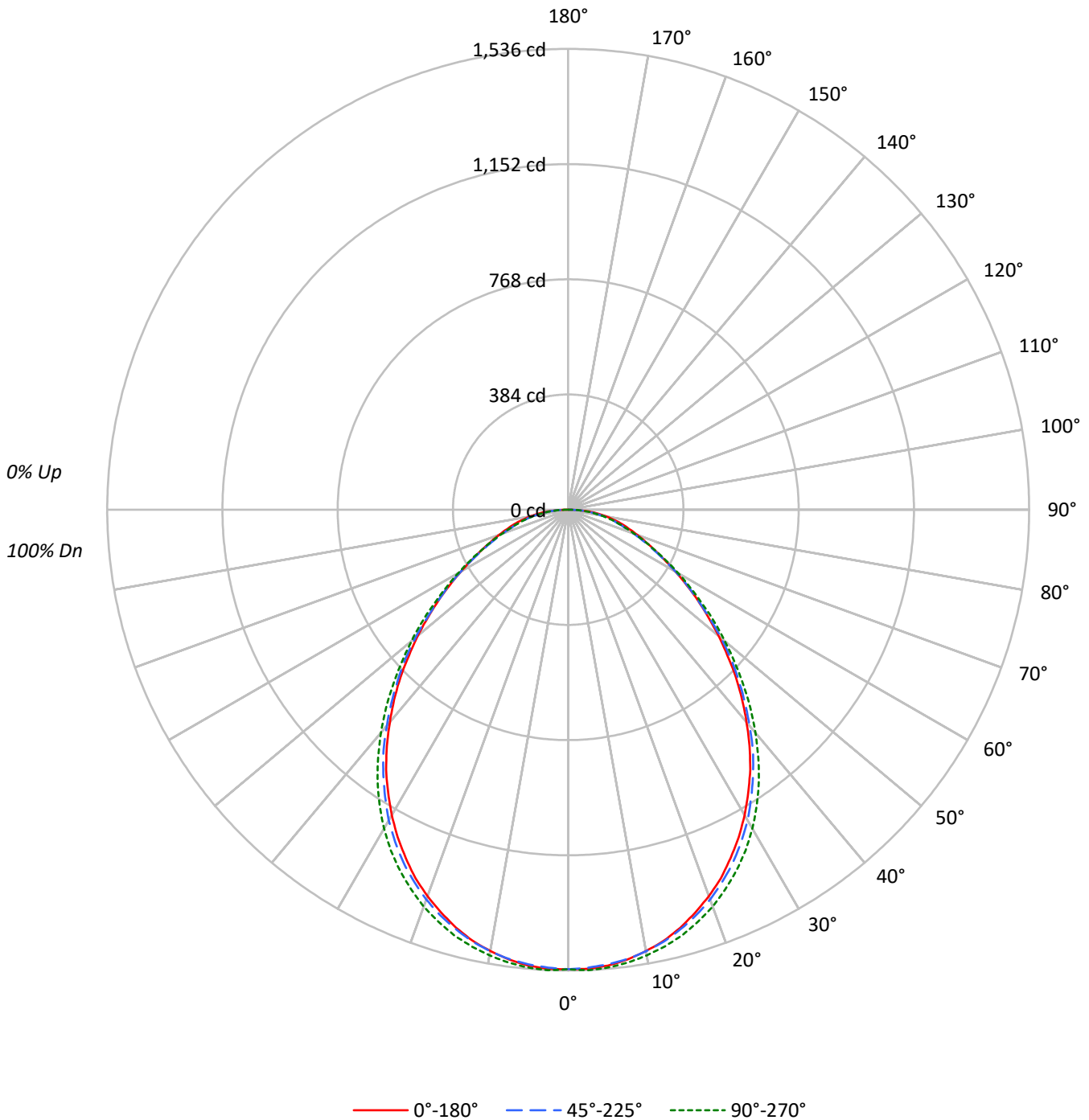
Input Watts (W): 32.457
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4122	4122	4122
5°	4120	4109	4138
10°	4081	4083	4121
15°	4019	4033	4091
20°	3925	3960	4031
25°	3803	3855	3940
30°	3653	3715	3814
35°	3473	3529	3638
40°	3248	3302	3410
45°	3007	3053	3143
50°	2738	2782	2853
55°	2472	2480	2552
60°	2218	2227	2279
65°	2020	1980	2026
70°	1924	1815	1847
75°	1936	1751	1759
80°	2007	1768	1756
85°	2198	1874	1775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	4.1
10°-20°	408.8	11.7
20°-30°	598.3	17.1
30°-40°	672.7	19.3
40°-50°	620.4	17.8
50°-60°	478.1	13.7
60°-70°	315.5	9.0
70°-80°	183.6	5.3
80°-90°	66.9	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°	1151.8	33.0
0°-40°	1824.5	52.3
0°-60°	2922.9	83.8
0°-90°	3489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3489.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1525	1522	1521	1528	1532	145
15°	1443	1443	1448	1460	1468	406
25°	1281	1287	1298	1316	1327	589
35°	1057	1062	1074	1096	1108	659
45°	790	791	802	818	826	608
55°	527	526	529	538	544	473
65°	317	316	311	313	318	318
75°	186	178	168	165	169	196
85°	71	70	61	56	58	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1531.7	1531.7	1531.7	1531.7	1531.7
2.5°	1531.7	1528.4	1527.6	1533.3	1536.5
5°	1525.2	1522.0	1521.2	1528.4	1531.7
7.5°	1512.3	1509.8	1510.6	1518.7	1522.8
10°	1493.6	1492.8	1494.4	1503.4	1508.2
12.5°	1471.8	1471.0	1474.2	1483.9	1490.4
15°	1442.6	1442.6	1447.5	1460.4	1468.5
17.5°	1407.8	1410.3	1417.5	1430.5	1439.4
20°	1370.6	1373.0	1382.7	1397.3	1407.8
22.5°	1329.3	1332.5	1342.2	1360.1	1369.0
25°	1280.7	1287.2	1298.5	1316.3	1326.9
27.5°	1230.5	1237.8	1248.3	1270.2	1279.9
30°	1175.5	1180.3	1195.7	1216.0	1227.3
32.5°	1117.2	1122.0	1135.0	1159.3	1169.0
35°	1057.3	1062.1	1074.3	1096.1	1107.5
37.5°	992.5	996.6	1011.1	1028.1	1040.3
40°	924.5	930.2	939.9	960.1	970.7
42.5°	858.1	860.6	871.1	891.3	899.4
45°	790.1	790.9	802.3	818.5	825.8
47.5°	719.7	721.3	735.1	744.8	752.1
50°	654.1	654.9	664.6	673.6	681.6
52.5°	588.5	588.5	593.4	603.1	613.6
55°	527.0	526.2	528.6	537.5	544.0
57.5°	468.7	467.9	471.2	476.8	481.7
60°	412.1	410.4	413.7	416.9	423.4
62.5°	361.9	363.5	359.4	364.3	369.2
65°	317.3	315.7	310.9	313.3	318.2
67.5°	279.3	276.9	268.8	270.4	276.1
70°	244.5	239.6	230.7	230.7	234.8
72.5°	212.9	208.1	196.7	197.5	199.2
75°	186.2	178.1	168.4	165.2	169.2
77.5°	157.1	150.6	141.7	139.2	140.9
80°	129.5	124.7	114.1	110.9	113.3
82.5°	102.8	98.8	86.6	84.2	85.0
85°	71.2	70.4	60.7	55.9	57.5
87.5°	38.0	38.9	31.6	28.3	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)