

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: P292005

Luminaire Tested: **22GR-LD5-36-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292005
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-LD5-36-F125-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3725.0 lumens
Efficiency: N/A
Efficacy: 129.6 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

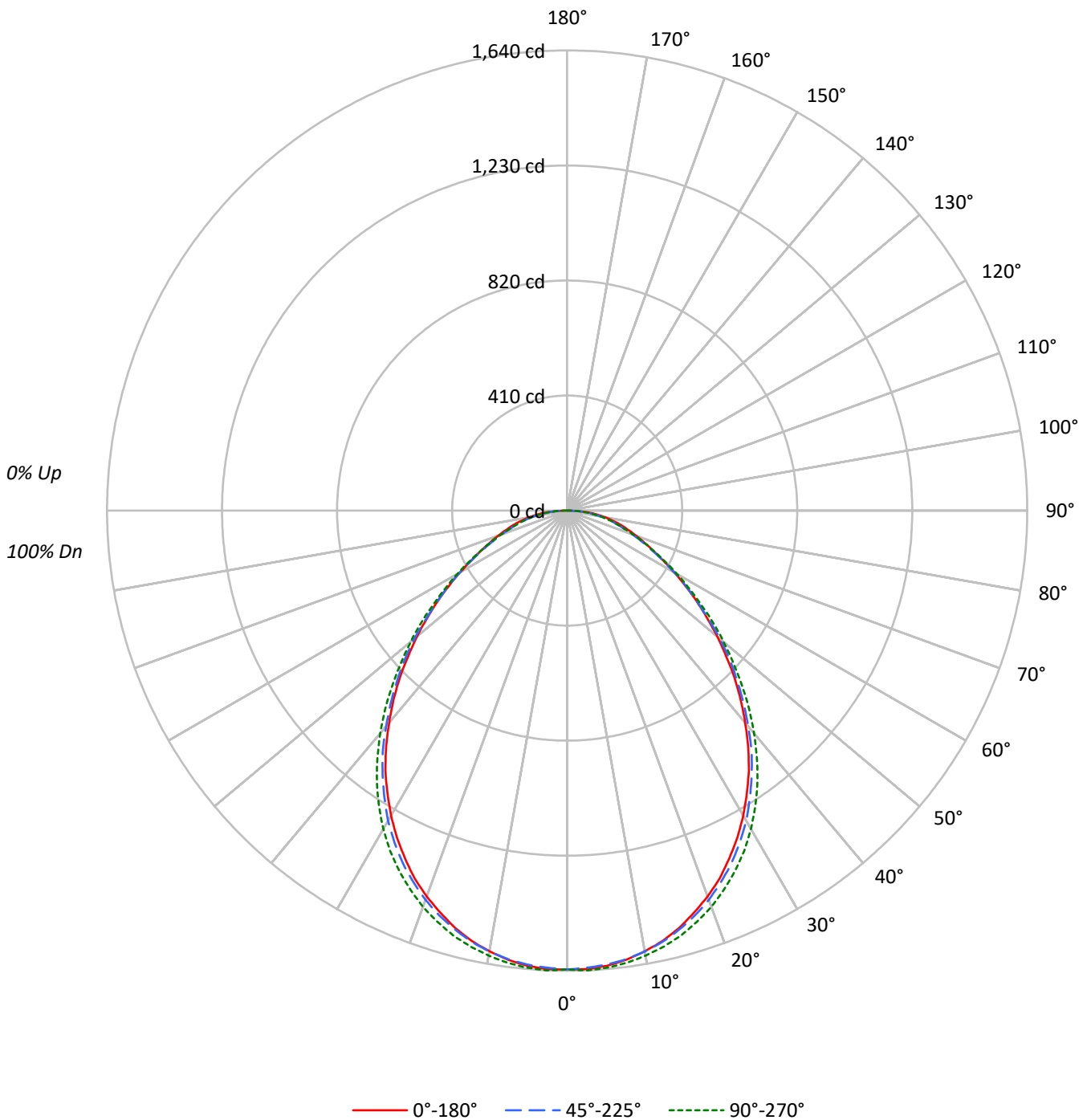
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4401	4401	4401
5°	4399	4387	4417
10°	4358	4360	4400
15°	4291	4305	4368
20°	4190	4228	4304
25°	4060	4116	4206
30°	3900	3967	4071
35°	3708	3768	3884
40°	3468	3525	3640
45°	3210	3260	3355
50°	2924	2971	3047
55°	2640	2648	2725
60°	2368	2377	2433
65°	2157	2113	2163
70°	2054	1938	1972
75°	2067	1869	1878
80°	2143	1889	1875
85°	2350	2001	1896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	4.1
10°-20°	436.4	11.7
20°-30°	638.8	17.1
30°-40°	718.2	19.3
40°-50°	662.3	17.8
50°-60°	510.5	13.7
60°-70°	336.8	9.0
70°-80°	196.1	5.3
80°-90°	71.4	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°	1229.7	33.0
0°-40°	1947.9	52.3
0°-60°	3120.7	83.8
0°-90°	3725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3725.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1635	1635	1635	1635	1635	
5°	1628	1625	1624	1632	1635	154
15°	1540	1540	1545	1559	1568	433
25°	1367	1374	1386	1405	1417	629
35°	1129	1134	1147	1170	1182	704
45°	844	844	856	874	882	650
55°	563	562	564	574	581	505
65°	339	337	332	334	340	340
75°	199	190	180	176	181	209
85°	76	75	65	60	61	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1635.3	1635.3	1635.3	1635.3	1635.3
2.5°	1635.3	1631.8	1631.0	1637.0	1640.5
5°	1628.4	1624.9	1624.1	1631.8	1635.3
7.5°	1614.5	1612.0	1612.8	1621.5	1625.8
10°	1594.7	1593.8	1595.5	1605.0	1610.2
12.5°	1571.3	1570.5	1573.9	1584.3	1591.2
15°	1540.2	1540.2	1545.4	1559.2	1567.9
17.5°	1503.0	1505.6	1513.4	1527.3	1536.8
20°	1463.3	1465.9	1476.3	1491.8	1503.0
22.5°	1419.2	1422.7	1433.0	1452.1	1461.6
25°	1367.4	1374.3	1386.4	1405.4	1416.6
27.5°	1313.8	1321.5	1332.8	1356.1	1366.5
30°	1255.0	1260.2	1276.6	1298.2	1310.3
32.5°	1192.8	1197.9	1211.8	1237.7	1248.1
35°	1128.8	1134.0	1147.0	1170.3	1182.4
37.5°	1059.7	1064.0	1079.5	1097.7	1110.6
40°	987.1	993.1	1003.5	1025.1	1036.3
42.5°	916.2	918.8	930.0	951.6	960.3
45°	843.6	844.4	856.5	873.8	881.6
47.5°	768.4	770.1	784.8	795.2	803.0
50°	698.4	699.2	709.6	719.1	727.8
52.5°	628.4	628.4	633.5	643.9	655.2
55°	562.7	561.8	564.4	573.9	580.8
57.5°	500.4	499.6	503.0	509.1	514.3
60°	439.9	438.2	441.7	445.1	452.0
62.5°	386.4	388.1	383.8	388.9	394.1
65°	338.8	337.1	331.9	334.5	339.7
67.5°	298.2	295.6	287.0	288.7	294.7
70°	261.0	255.8	246.3	246.3	250.7
72.5°	227.3	222.1	210.0	210.9	212.6
75°	198.8	190.2	179.8	176.3	180.6
77.5°	167.7	160.8	151.3	148.7	150.4
80°	138.3	133.1	121.9	118.4	121.0
82.5°	109.8	105.4	92.5	89.9	90.8
85°	76.1	75.2	64.8	59.6	61.4
87.5°	40.6	41.5	33.7	30.3	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)