

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: P292102

Luminaire Tested: **22GR-LD5-36-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292102
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-L92765-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3278.0 lumens
Efficiency: N/A
Efficacy: 114.4 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

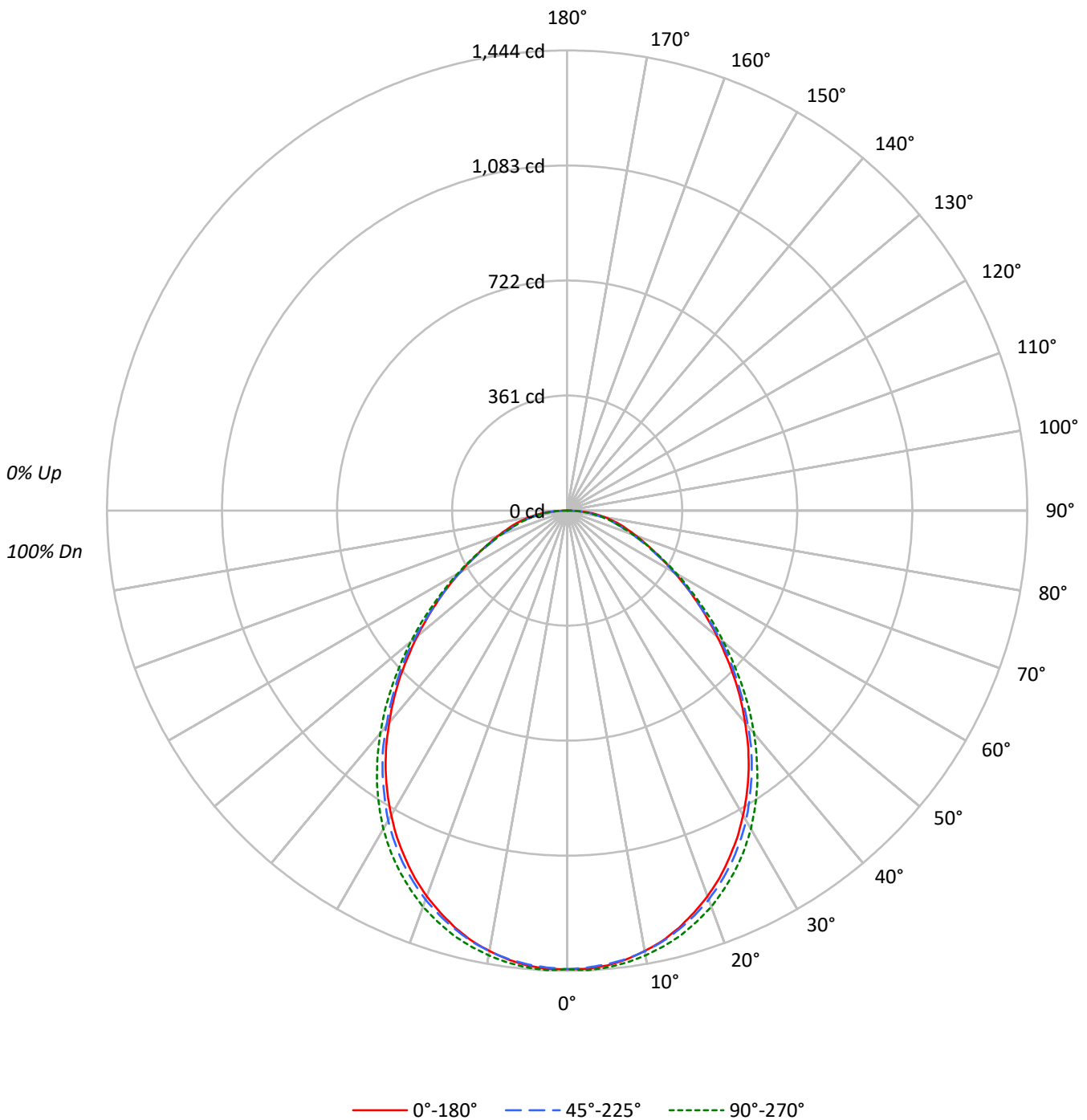
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292102

CATALOG NUMBER: 22GR-LD5-36-F125-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P292102

CATALOG NUMBER: 22GR-LD5-36-F125-UNV-L92765-W2A1-U-4500K

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°	3873	3873	3873
5°	3871	3861	3887
10°	3835	3837	3872
15°	3776	3789	3844
20°	3688	3720	3788
25°	3573	3622	3701
30°	3432	3491	3583
35°	3263	3316	3418
40°	3051	3102	3204
45°	2825	2869	2952
50°	2573	2614	2681
55°	2323	2330	2398
60°	2083	2092	2141
65°	1899	1860	1903
70°	1807	1706	1736
75°	1818	1645	1653
80°	1886	1661	1650
85°	2066	1760	1667



TEST NUMBER: P292102

CATALOG NUMBER: 22GR-LD5-36-F125-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	4.1
10°-20°	384.1	11.7
20°-30°	562.1	17.1
30°-40°	632.0	19.3
40°-50°	582.8	17.8
50°-60°	449.2	13.7
60°-70°	296.4	9.0
70°-80°	172.5	5.3
80°-90°	62.8	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°	1082.1	33.0
0°-40°	1714.2	52.3
0°-60°	2746.2	83.8
0°-90°	3278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1439	1439	1439	1439	1439	
5°	1433	1430	1429	1436	1439	136
15°	1355	1355	1360	1372	1380	381
25°	1203	1209	1220	1237	1247	553
35°	993	998	1009	1030	1040	619
45°	742	743	754	769	776	572
55°	495	494	497	505	511	444
65°	298	297	292	294	299	299
75°	175	167	158	155	159	184
85°	67	66	57	52	54	71
90°	0	0	0	0	0	



TEST NUMBER: P292102

CATALOG NUMBER: 22GR-LD5-36-F125-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1439.1	1439.1	1439.1	1439.1	1439.1
2.5°	1439.1	1436.0	1435.3	1440.6	1443.6
5°	1433.0	1429.9	1429.2	1436.0	1439.1
7.5°	1420.8	1418.5	1419.3	1426.9	1430.7
10°	1403.3	1402.5	1404.1	1412.4	1417.0
12.5°	1382.8	1382.0	1385.1	1394.2	1400.3
15°	1355.4	1355.4	1360.0	1372.1	1379.7
17.5°	1322.7	1325.0	1331.8	1344.0	1352.3
20°	1287.7	1290.0	1299.1	1312.8	1322.7
22.5°	1248.9	1251.9	1261.1	1277.8	1286.2
25°	1203.3	1209.4	1220.0	1236.7	1246.6
27.5°	1156.1	1163.0	1172.8	1193.4	1202.5
30°	1104.4	1109.0	1123.4	1142.4	1153.1
32.5°	1049.6	1054.2	1066.4	1089.2	1098.3
35°	993.3	997.9	1009.3	1029.9	1040.5
37.5°	932.5	936.3	950.0	966.0	977.4
40°	868.6	873.9	883.1	902.1	912.0
42.5°	806.2	808.5	818.4	837.4	845.0
45°	742.3	743.1	753.8	769.0	775.8
47.5°	676.2	677.7	690.6	699.8	706.6
50°	614.6	615.3	624.5	632.8	640.4
52.5°	553.0	553.0	557.5	566.6	576.5
55°	495.2	494.4	496.7	505.0	511.1
57.5°	440.4	439.6	442.7	448.0	452.6
60°	387.1	385.6	388.7	391.7	397.8
62.5°	340.0	341.5	337.7	342.3	346.8
65°	298.2	296.6	292.1	294.4	298.9
67.5°	262.4	260.1	252.5	254.0	259.4
70°	229.7	225.1	216.8	216.8	220.6
72.5°	200.0	195.5	184.8	185.6	187.1
75°	174.9	167.3	158.2	155.2	159.0
77.5°	147.6	141.5	133.1	130.8	132.3
80°	121.7	117.1	107.2	104.2	106.5
82.5°	96.6	92.8	81.4	79.1	79.9
85°	66.9	66.2	57.0	52.5	54.0
87.5°	35.7	36.5	29.7	26.6	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)