

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: P292051

Luminaire Tested: **22GR-LD5-36-F125-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292051  
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-L93050-W2A1-U-5000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3379.0 lumens  
Efficiency: N/A  
Efficacy: 115.3 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

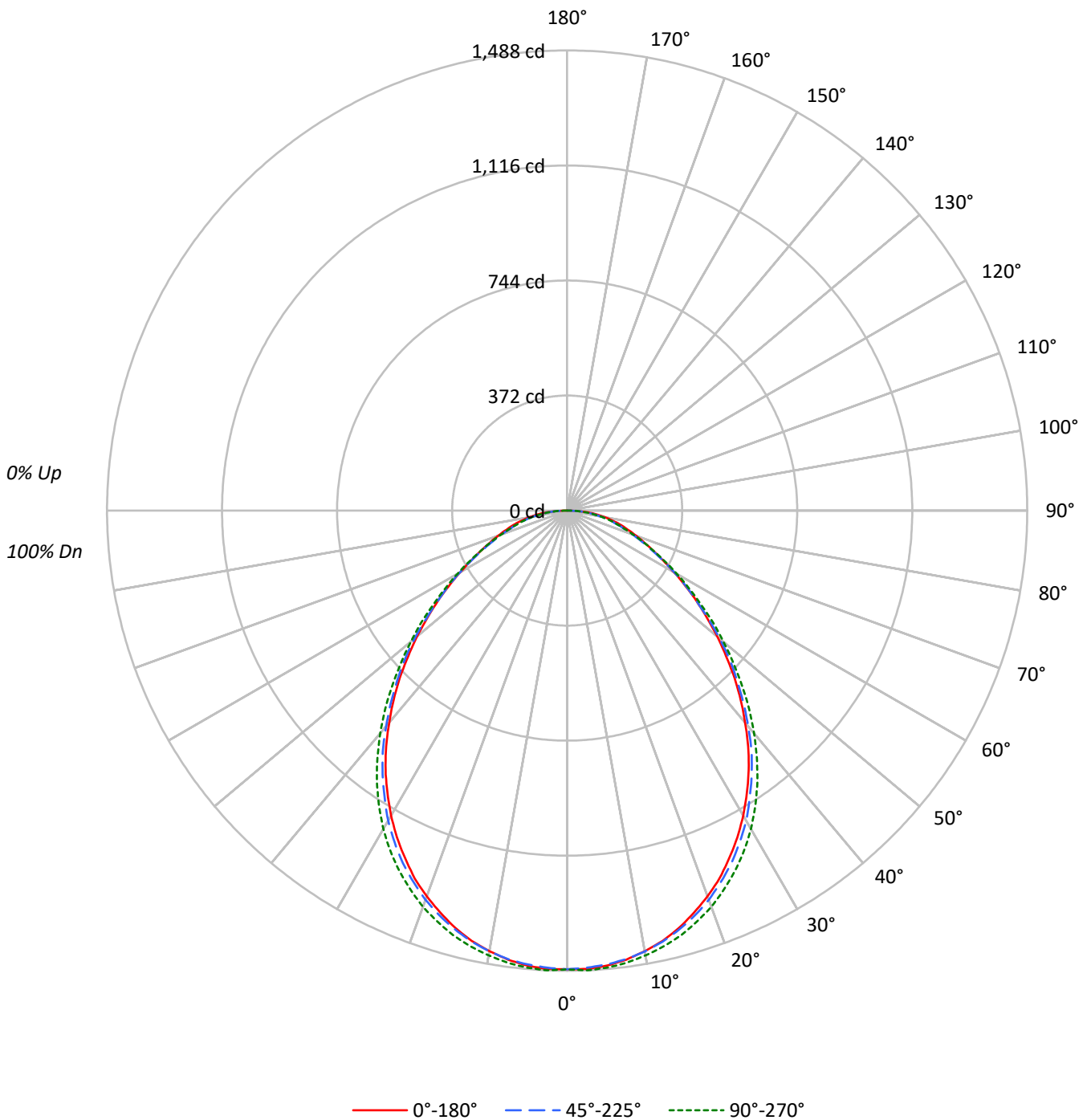
Input Watts (W): 29.295  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3992	3992	3992
5°	3990	3979	4007
10°	3953	3955	3991
15°	3892	3906	3962
20°	3801	3835	3904
25°	3683	3734	3815
30°	3537	3598	3693
35°	3364	3418	3524
40°	3145	3198	3302
45°	2912	2957	3043
50°	2652	2695	2764
55°	2395	2402	2472
60°	2148	2156	2207
65°	1957	1917	1962
70°	1863	1758	1789
75°	1875	1696	1704
80°	1943	1712	1702
85°	2130	1815	1720



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.1	4.1
10°-20°	395.9	11.7
20°-30°	579.4	17.1
30°-40°	651.5	19.3
40°-50°	600.8	17.8
50°-60°	463.1	13.7
60°-70°	305.6	9.0
70°-80°	177.8	5.3
80°-90°	64.8	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°	1115.5	33.0
0°-40°	1767.0	52.3
0°-60°	2830.8	83.8
0°-90°	3379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3379.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1483	1483	1483	1483	1483	
5°	1477	1474	1473	1480	1483	140
15°	1397	1397	1402	1414	1422	393
25°	1240	1247	1258	1275	1285	570
35°	1024	1029	1040	1062	1073	638
45°	765	766	777	793	800	589
55°	510	510	512	521	527	458
65°	307	306	301	303	308	308
75°	180	172	163	160	164	190
85°	69	68	59	54	56	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1483.4	1483.4	1483.4	1483.4	1483.4
2.5°	1483.4	1480.3	1479.5	1485.0	1488.1
5°	1477.1	1474.0	1473.2	1480.3	1483.4
7.5°	1464.6	1462.2	1463.0	1470.9	1474.8
10°	1446.5	1445.8	1447.3	1456.0	1460.7
12.5°	1425.4	1424.6	1427.7	1437.1	1443.4
15°	1397.2	1397.2	1401.9	1414.4	1422.2
17.5°	1363.4	1365.8	1372.8	1385.4	1394.0
20°	1327.4	1329.7	1339.1	1353.2	1363.4
22.5°	1287.4	1290.5	1299.9	1317.2	1325.8
25°	1240.3	1246.6	1257.6	1274.8	1285.0
27.5°	1191.7	1198.8	1209.0	1230.2	1239.6
30°	1138.4	1143.1	1158.0	1177.6	1188.6
32.5°	1082.0	1086.7	1099.2	1122.7	1132.1
35°	1024.0	1028.7	1040.4	1061.6	1072.6
37.5°	961.2	965.1	979.3	995.7	1007.5
40°	895.4	900.9	910.3	929.9	940.1
42.5°	831.1	833.4	843.6	863.2	871.1
45°	765.2	766.0	777.0	792.7	799.7
47.5°	697.0	698.6	711.9	721.3	728.4
50°	633.5	634.3	643.7	652.3	660.2
52.5°	570.0	570.0	574.7	584.1	594.3
55°	510.4	509.6	512.0	520.6	526.9
57.5°	454.0	453.2	456.3	461.8	466.5
60°	399.1	397.5	400.6	403.8	410.1
62.5°	350.5	352.0	348.1	352.8	357.5
65°	307.3	305.8	301.1	303.4	308.1
67.5°	270.5	268.1	260.3	261.9	267.4
70°	236.8	232.1	223.5	223.5	227.4
72.5°	206.2	201.5	190.5	191.3	192.9
75°	180.3	172.5	163.1	159.9	163.9
77.5°	152.1	145.8	137.2	134.9	136.4
80°	125.4	120.7	110.5	107.4	109.8
82.5°	99.6	95.7	83.9	81.5	82.3
85°	69.0	68.2	58.8	54.1	55.7
87.5°	36.8	37.6	30.6	27.4	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)