

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: P292092

Luminaire Tested: **22GR-LD5-32-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292092  
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-LD5-32-F125-UNV-L92765-W2A1-U-4000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2847.0 lumens  
Efficiency: N/A  
Efficacy: 114.7 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

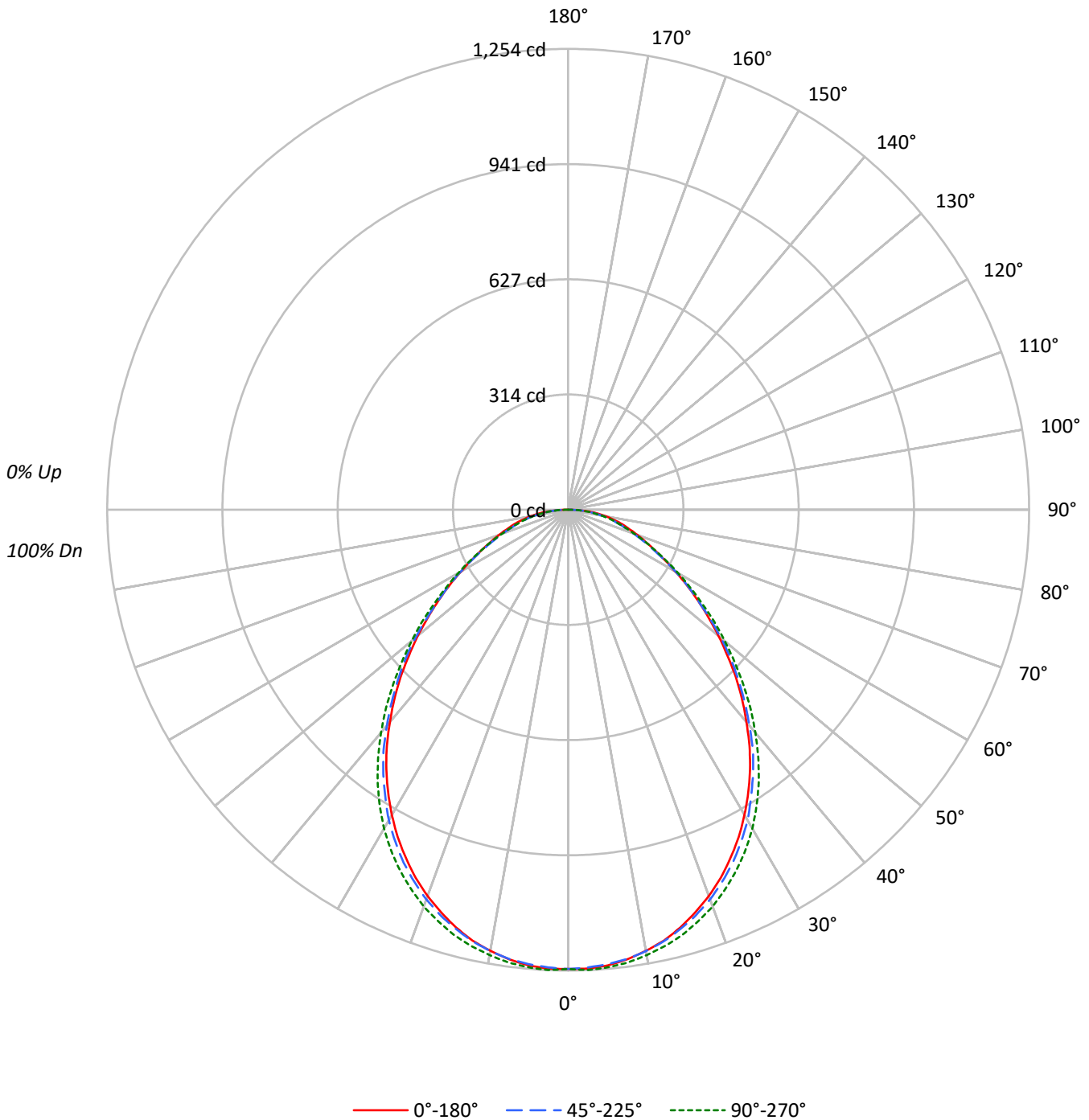
Input Watts (W): 24.831  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3363	3363	3363
5°	3362	3353	3376
10°	3330	3332	3363
15°	3280	3290	3338
20°	3203	3231	3290
25°	3103	3146	3215
30°	2980	3032	3112
35°	2834	2880	2969
40°	2650	2694	2783
45°	2453	2491	2564
50°	2235	2270	2328
55°	2017	2024	2083
60°	1809	1817	1859
65°	1649	1615	1653
70°	1570	1482	1507
75°	1579	1429	1436
80°	1638	1443	1433
85°	1794	1528	1448



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.1	4.1
10°-20°	333.6	11.7
20°-30°	488.2	17.1
30°-40°	548.9	19.3
40°-50°	506.2	17.8
50°-60°	390.2	13.7
60°-70°	257.4	9.0
70°-80°	149.8	5.3
80°-90°	54.6	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°	939.9	33.0
0°-40°	1488.8	52.3
0°-60°	2385.1	83.8
0°-90°	2847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2847.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1250	1250	1250	1250	1250	
5°	1245	1242	1241	1247	1250	118
15°	1177	1177	1181	1192	1198	331
25°	1045	1050	1060	1074	1083	481
35°	863	867	877	894	904	538
45°	645	645	655	668	674	496
55°	430	429	431	439	444	386
65°	259	258	254	256	260	260
75°	152	145	137	135	138	160
85°	58	58	50	46	47	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1249.8	1249.8	1249.8	1249.8	1249.8
2.5°	1249.8	1247.2	1246.5	1251.2	1253.8
5°	1244.6	1241.9	1241.3	1247.2	1249.8
7.5°	1234.0	1232.0	1232.7	1239.3	1242.6
10°	1218.8	1218.1	1219.5	1226.7	1230.7
12.5°	1201.0	1200.3	1202.9	1210.9	1216.2
15°	1177.2	1177.2	1181.1	1191.7	1198.3
17.5°	1148.8	1150.8	1156.7	1167.3	1174.5
20°	1118.4	1120.4	1128.3	1140.2	1148.8
22.5°	1084.7	1087.3	1095.3	1109.8	1117.1
25°	1045.1	1050.3	1059.6	1074.1	1082.7
27.5°	1004.1	1010.0	1018.6	1036.5	1044.4
30°	959.2	963.1	975.7	992.2	1001.5
32.5°	911.6	915.6	926.2	946.0	953.9
35°	862.7	866.7	876.6	894.4	903.7
37.5°	809.9	813.2	825.1	839.0	848.9
40°	754.4	759.0	767.0	783.5	792.1
42.5°	700.2	702.2	710.8	727.3	733.9
45°	644.7	645.4	654.6	667.9	673.8
47.5°	587.3	588.6	599.8	607.7	613.7
50°	533.8	534.4	542.3	549.6	556.2
52.5°	480.3	480.3	484.2	492.1	500.7
55°	430.0	429.4	431.4	438.6	443.9
57.5°	382.5	381.8	384.5	389.1	393.1
60°	336.2	334.9	337.6	340.2	345.5
62.5°	295.3	296.6	293.3	297.3	301.2
65°	259.0	257.6	253.7	255.7	259.6
67.5°	227.9	225.9	219.3	220.6	225.3
70°	199.5	195.5	188.3	188.3	191.6
72.5°	173.7	169.8	160.5	161.2	162.5
75°	151.9	145.3	137.4	134.8	138.1
77.5°	128.2	122.9	115.6	113.6	114.9
80°	105.7	101.7	93.1	90.5	92.5
82.5°	83.9	80.6	70.7	68.7	69.4
85°	58.1	57.5	49.5	45.6	46.9
87.5°	31.0	31.7	25.8	23.1	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)