

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: P291947

Luminaire Tested: **22GR-LD5-32-F125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291947  
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-L83050-W2A1-U-4500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3416.0 lumens  
Efficiency: N/A  
Efficacy: 132.6 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

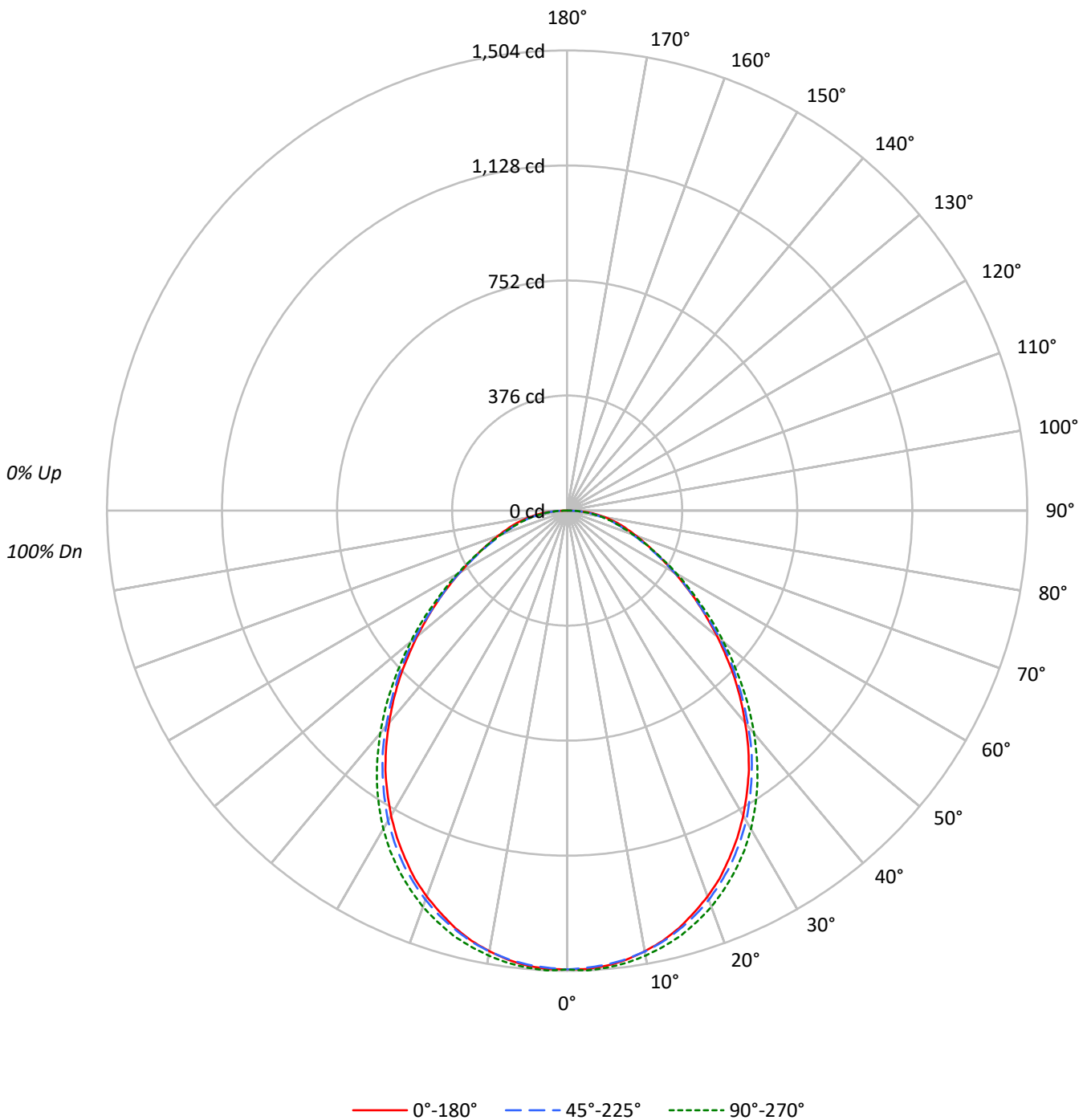
Input Watts (W): 25.761  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4035	4035	4035
5°	4034	4023	4051
10°	3996	3998	4035
15°	3935	3948	4006
20°	3843	3877	3947
25°	3723	3775	3857
30°	3576	3638	3734
35°	3401	3455	3562
40°	3180	3232	3339
45°	2944	2989	3077
50°	2681	2724	2794
55°	2421	2428	2499
60°	2171	2180	2231
65°	1978	1938	1983
70°	1884	1777	1809
75°	1895	1714	1723
80°	1965	1733	1720
85°	2155	1834	1738



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.7	4.1
10°-20°	400.2	11.7
20°-30°	585.8	17.1
30°-40°	658.6	19.3
40°-50°	607.4	17.8
50°-60°	468.1	13.7
60°-70°	308.9	9.0
70°-80°	179.8	5.3
80°-90°	65.5	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°	1127.7	33.0
0°-40°	1786.3	52.3
0°-60°	2861.8	83.8
0°-90°	3416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3416.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1500	1500	1500	1500	1500	
5°	1493	1490	1489	1496	1500	142
15°	1412	1412	1417	1430	1438	397
25°	1254	1260	1271	1289	1299	577
35°	1035	1040	1052	1073	1084	645
45°	774	774	786	801	808	596
55°	516	515	518	526	533	463
65°	311	309	304	307	312	312
75°	182	174	165	162	166	192
85°	70	69	59	55	56	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1499.6	1499.6	1499.6	1499.6	1499.6
2.5°	1499.6	1496.5	1495.7	1501.2	1504.4
5°	1493.3	1490.1	1489.3	1496.5	1499.6
7.5°	1480.6	1478.2	1479.0	1487.0	1490.9
10°	1462.4	1461.6	1463.2	1471.9	1476.7
12.5°	1441.0	1440.2	1443.4	1452.9	1459.2
15°	1412.4	1412.4	1417.2	1429.9	1437.8
17.5°	1378.4	1380.7	1387.9	1400.6	1409.3
20°	1341.9	1344.3	1353.8	1368.1	1378.4
22.5°	1301.5	1304.7	1314.2	1331.6	1340.3
25°	1253.9	1260.3	1271.4	1288.8	1299.1
27.5°	1204.8	1211.9	1222.2	1243.6	1253.1
30°	1150.9	1155.6	1170.7	1190.5	1201.6
32.5°	1093.8	1098.6	1111.3	1135.0	1144.5
35°	1035.2	1039.9	1051.8	1073.2	1084.3
37.5°	971.8	975.7	990.0	1006.6	1018.5
40°	905.2	910.7	920.2	940.0	950.4
42.5°	840.2	842.6	852.9	872.7	880.6
45°	773.6	774.4	785.5	801.3	808.5
47.5°	704.6	706.2	719.7	729.2	736.3
50°	640.4	641.2	650.7	659.5	667.4
52.5°	576.2	576.2	581.0	590.5	600.8
55°	516.0	515.2	517.6	526.3	532.6
57.5°	458.9	458.1	461.3	466.9	471.6
60°	403.4	401.9	405.0	408.2	414.5
62.5°	354.3	355.9	351.9	356.7	361.4
65°	310.7	309.1	304.4	306.7	311.5
67.5°	273.5	271.1	263.2	264.7	270.3
70°	239.4	234.6	225.9	225.9	229.9
72.5°	208.5	203.7	192.6	193.4	195.0
75°	182.3	174.4	164.9	161.7	165.7
77.5°	153.8	147.4	138.7	136.3	137.9
80°	126.8	122.1	111.8	108.6	111.0
82.5°	100.7	96.7	84.8	82.4	83.2
85°	69.8	69.0	59.4	54.7	56.3
87.5°	37.3	38.0	30.9	27.7	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)