

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: P293297

Luminaire Tested: **24GR-LD5-38-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293297  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-38-F125-UNV-L93050-W2A1-U-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2994.0 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

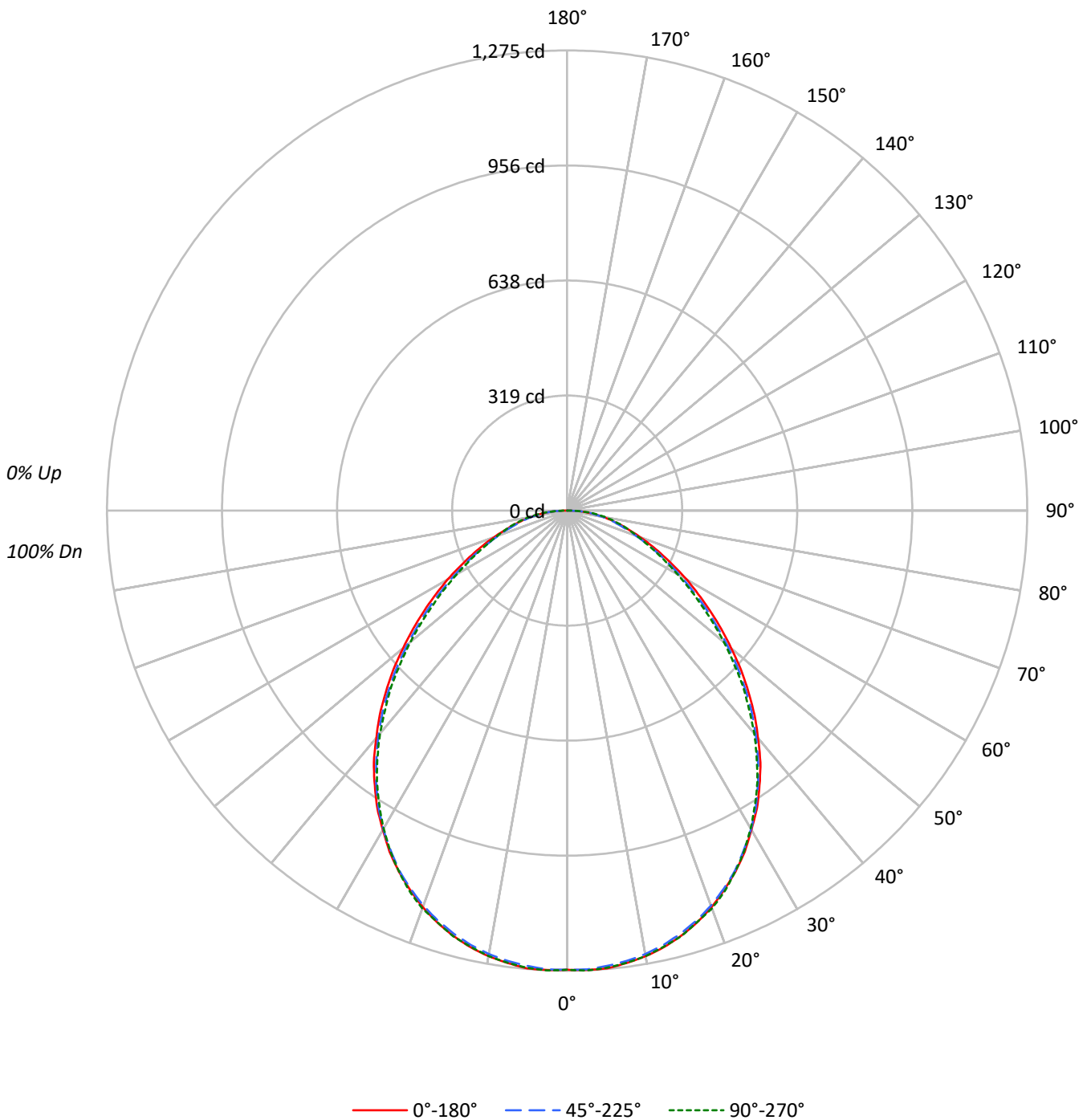
Input Watts (W): 25.972947  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1712	1712	1712
5°	1720	1710	1717
10°	1713	1705	1712
15°	1699	1690	1701
20°	1675	1668	1680
25°	1638	1634	1637
30°	1586	1584	1580
35°	1527	1515	1509
40°	1445	1429	1417
45°	1352	1327	1311
50°	1242	1209	1188
55°	1133	1091	1059
60°	1029	974	948
65°	927	875	860
70°	849	793	816
75°	793	756	813
80°	787	773	848
85°	801	809	925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.4	4.0
10°-20°	342.4	11.4
20°-30°	505.8	16.9
30°-40°	575.0	19.2
40°-50°	537.0	17.9
50°-60°	417.6	13.9
60°-70°	277.1	9.3
70°-80°	160.4	5.4
80°-90°	58.3	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°	968.6	32.4
0°-40°	1543.6	51.6
0°-60°	2498.2	83.4
0°-90°	2994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2994.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1273	1267	1266	1269	1272	121
15°	1220	1214	1214	1213	1221	344
25°	1104	1099	1101	1098	1103	507
35°	929	925	922	916	919	580
45°	710	705	697	688	689	547
55°	483	476	465	453	452	433
65°	291	282	275	270	270	291
75°	153	149	146	152	156	163
85°	52	51	52	59	60	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1272.4	1272.4	1272.4	1272.4	1272.4
2.5°	1274.3	1270.6	1272.4	1271.0	1275.3
5°	1273.4	1266.8	1266.4	1268.7	1271.5
7.5°	1264.5	1257.5	1258.9	1258.9	1263.6
10°	1253.7	1246.7	1247.6	1248.1	1253.3
12.5°	1239.2	1232.2	1232.7	1232.2	1237.4
15°	1220.0	1214.0	1213.5	1213.0	1221.0
17.5°	1196.6	1188.2	1191.0	1191.5	1195.7
20°	1169.5	1162.9	1164.8	1164.3	1173.2
22.5°	1137.2	1132.5	1133.9	1133.0	1141.4
25°	1103.5	1098.8	1100.7	1098.4	1103.0
27.5°	1065.6	1062.3	1060.5	1059.0	1062.3
30°	1021.1	1019.3	1019.3	1013.2	1016.9
32.5°	979.0	972.9	972.9	970.6	968.3
35°	929.4	924.7	922.4	915.8	918.7
37.5°	879.8	869.0	868.1	863.0	863.0
40°	822.7	816.6	813.4	807.7	806.8
42.5°	768.4	762.3	756.7	747.4	745.5
45°	710.4	704.8	697.3	688.4	688.9
47.5°	652.8	644.9	637.9	627.1	625.7
50°	593.4	587.8	577.5	568.1	567.7
52.5°	537.7	528.8	519.5	508.2	508.2
55°	483.0	475.9	465.2	453.0	451.6
57.5°	430.5	424.0	411.8	402.9	400.6
60°	382.3	373.0	361.8	354.3	352.4
62.5°	334.1	325.7	317.3	309.8	309.3
65°	291.1	282.2	274.7	269.6	270.0
67.5°	252.2	244.8	236.3	234.9	235.4
70°	215.7	207.8	201.7	205.0	207.3
72.5°	181.1	176.9	172.7	177.4	180.6
75°	152.6	148.8	145.5	152.1	156.3
77.5°	126.4	123.5	123.1	128.7	132.4
80°	101.6	98.3	99.7	106.2	109.5
82.5°	77.2	74.9	75.3	83.3	85.6
85°	51.9	51.0	52.4	59.4	59.9
87.5°	27.6	27.6	28.5	32.8	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)