

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: P293231

Luminaire Tested: **24GR-LD5-38-F125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293231  
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-L82765-W2A1-U-5700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4012.0 lumens  
Efficiency: N/A  
Efficacy: 153.5 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

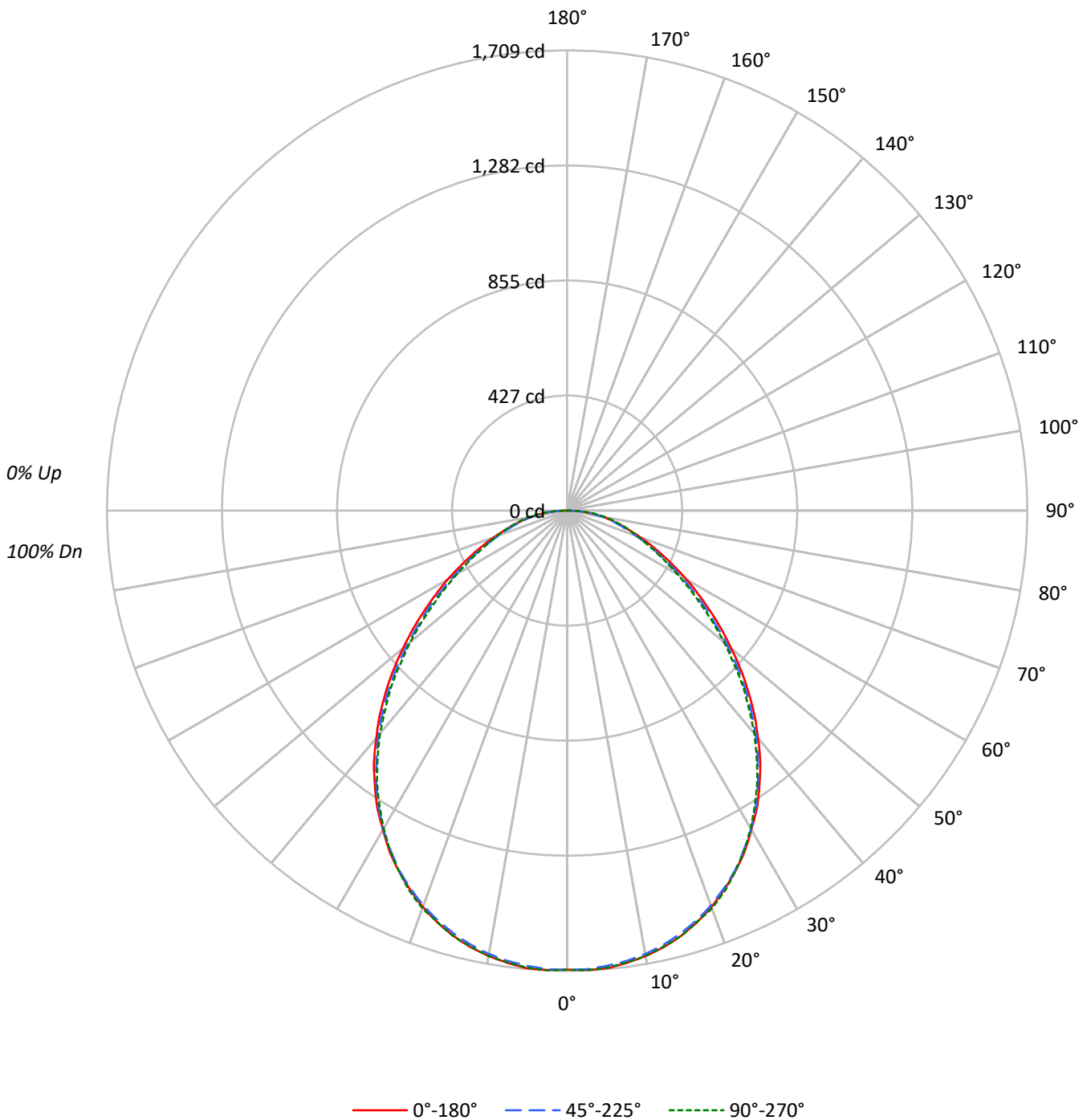
Input Watts (W): 26.133  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	72	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°	2294	2294	2294
5°	2305	2292	2301
10°	2295	2284	2294
15°	2277	2265	2279
20°	2244	2235	2251
25°	2195	2190	2194
30°	2126	2122	2117
35°	2046	2030	2022
40°	1936	1914	1899
45°	1811	1778	1756
50°	1665	1620	1592
55°	1518	1462	1420
60°	1379	1305	1271
65°	1242	1172	1152
70°	1137	1063	1093
75°	1063	1014	1089
80°	1055	1035	1137
85°	1074	1084	1240



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.4	4.0
10°-20°	458.8	11.4
20°-30°	677.8	16.9
30°-40°	770.6	19.2
40°-50°	719.6	17.9
50°-60°	559.6	13.9
60°-70°	371.3	9.3
70°-80°	214.9	5.4
80°-90°	78.1	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°	1297.9	32.4
0°-40°	2068.5	51.6
0°-60°	3347.7	83.4
0°-90°	4012.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4012.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1705	1705	1705	1705	1705	
5°	1706	1698	1697	1700	1704	162
15°	1635	1627	1626	1626	1636	461
25°	1479	1472	1475	1472	1478	680
35°	1245	1239	1236	1227	1231	778
45°	952	944	934	922	923	733
55°	647	638	623	607	605	580
65°	390	378	368	361	362	390
75°	204	199	195	204	210	219
85°	70	68	70	80	80	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1705.1	1705.1	1705.1	1705.1	1705.1
2.5°	1707.6	1702.6	1705.1	1703.2	1708.9
5°	1706.4	1697.6	1696.9	1700.1	1703.8
7.5°	1694.4	1685.0	1686.9	1686.9	1693.2
10°	1680.0	1670.6	1671.9	1672.5	1679.4
12.5°	1660.6	1651.2	1651.8	1651.2	1658.1
15°	1634.9	1626.7	1626.1	1625.5	1636.1
17.5°	1603.5	1592.2	1596.0	1596.6	1602.3
20°	1567.1	1558.4	1560.9	1560.2	1572.2
22.5°	1523.9	1517.6	1519.5	1518.2	1529.5
25°	1478.7	1472.4	1475.0	1471.8	1478.1
27.5°	1427.9	1423.5	1421.0	1419.1	1423.5
30°	1368.3	1365.8	1365.8	1357.7	1362.7
32.5°	1311.9	1303.8	1303.8	1300.6	1297.5
35°	1245.4	1239.2	1236.0	1227.2	1231.0
37.5°	1179.0	1164.5	1163.3	1156.4	1156.4
40°	1102.5	1094.3	1089.9	1082.4	1081.1
42.5°	1029.7	1021.6	1014.0	1001.5	999.0
45°	951.9	944.4	934.4	922.5	923.1
47.5°	874.8	864.2	854.7	840.3	838.4
50°	795.2	787.6	773.8	761.3	760.7
52.5°	720.5	708.6	696.1	681.0	681.0
55°	647.2	637.8	623.3	607.0	605.2
57.5°	576.9	568.2	551.9	539.9	536.8
60°	512.3	499.8	484.8	474.7	472.2
62.5°	447.8	436.5	425.2	415.1	414.5
65°	390.1	378.1	368.1	361.2	361.8
67.5°	338.0	328.0	316.7	314.8	315.4
70°	289.1	278.4	270.3	274.7	277.8
72.5°	242.7	237.0	231.4	237.7	242.1
75°	204.4	199.4	195.0	203.8	209.5
77.5°	169.3	165.6	164.9	172.5	177.5
80°	136.1	131.7	133.6	142.4	146.7
82.5°	103.5	100.3	101.0	111.6	114.8
85°	69.6	68.4	70.2	79.6	80.3
87.5°	37.0	37.0	38.3	43.9	42.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)