

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: P291957

Luminaire Tested: **22GR-LD5-40-F125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291957  
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-LD5-40-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: 4323.0 lumens  
Efficiency: N/A  
Efficacy: 127.4 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

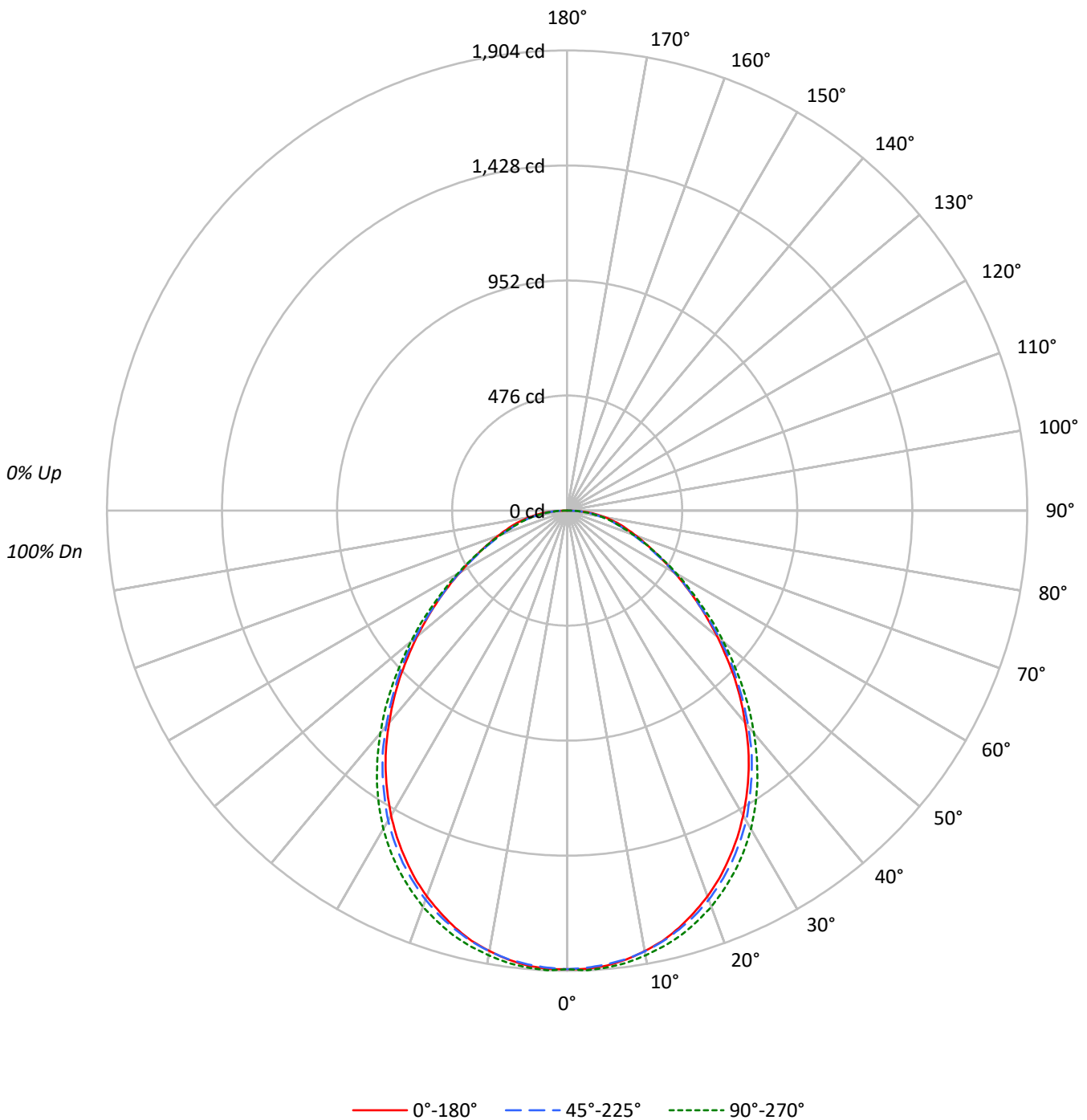
Input Watts (W): 33.945  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5107	5107	5107
5°	5105	5091	5126
10°	5057	5060	5106
15°	4980	4997	5069
20°	4863	4906	4995
25°	4712	4777	4881
30°	4526	4603	4725
35°	4303	4373	4508
40°	4024	4091	4225
45°	3726	3783	3894
50°	3393	3448	3536
55°	3064	3073	3163
60°	2748	2759	2823
65°	2504	2453	2510
70°	2383	2249	2289
75°	2399	2169	2179
80°	2487	2191	2176
85°	2726	2322	2198



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.3	4.1
10°-20°	506.5	11.7
20°-30°	741.3	17.1
30°-40°	833.5	19.3
40°-50°	768.6	17.8
50°-60°	592.4	13.7
60°-70°	390.9	9.0
70°-80°	227.5	5.3
80°-90°	82.9	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°	1427.1	33.0
0°-40°	2260.6	52.3
0°-60°	3621.7	83.8
0°-90°	4323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4323.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1898	1898	1898	1898	1898	
5°	1890	1886	1885	1894	1898	179
15°	1788	1788	1794	1810	1820	503
25°	1587	1595	1609	1631	1644	730
35°	1310	1316	1331	1358	1372	817
45°	979	980	994	1014	1023	754
55°	653	652	655	666	674	586
65°	393	391	385	388	394	394
75°	231	221	209	205	210	243
85°	88	87	75	69	71	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1897.8	1897.8	1897.8	1897.8	1897.8
2.5°	1897.8	1893.8	1892.8	1899.8	1903.8
5°	1889.8	1885.8	1884.8	1893.8	1897.8
7.5°	1873.7	1870.7	1871.7	1881.8	1886.8
10°	1850.7	1849.7	1851.7	1862.7	1868.7
12.5°	1823.6	1822.6	1826.6	1838.6	1846.7
15°	1787.5	1787.5	1793.5	1809.5	1819.6
17.5°	1744.3	1747.4	1756.4	1772.4	1783.5
20°	1698.2	1701.2	1713.2	1731.3	1744.3
22.5°	1647.0	1651.1	1663.1	1685.2	1696.2
25°	1586.9	1594.9	1608.9	1631.0	1644.0
27.5°	1524.7	1533.7	1546.7	1573.8	1585.9
30°	1456.5	1462.5	1481.5	1506.6	1520.7
32.5°	1384.2	1390.3	1406.3	1436.4	1448.4
35°	1310.0	1316.0	1331.1	1358.2	1372.2
37.5°	1229.8	1234.8	1252.8	1273.9	1288.9
40°	1145.5	1152.5	1164.6	1189.6	1202.7
42.5°	1063.3	1066.3	1079.3	1104.4	1114.4
45°	979.0	980.0	994.0	1014.1	1023.1
47.5°	891.7	893.7	910.8	922.8	931.9
50°	810.5	811.5	823.5	834.6	844.6
52.5°	729.2	729.2	735.3	747.3	760.3
55°	653.0	652.0	655.0	666.0	674.1
57.5°	580.8	579.8	583.8	590.8	596.8
60°	510.6	508.6	512.6	516.6	524.6
62.5°	448.4	450.4	445.4	451.4	457.4
65°	393.2	391.2	385.2	388.2	394.2
67.5°	346.1	343.1	333.0	335.0	342.0
70°	302.9	296.9	285.9	285.9	290.9
72.5°	263.8	257.8	243.7	244.7	246.8
75°	230.7	220.7	208.6	204.6	209.6
77.5°	194.6	186.6	175.5	172.5	174.5
80°	160.5	154.5	141.4	137.4	140.4
82.5°	127.4	122.4	107.3	104.3	105.3
85°	88.3	87.3	75.2	69.2	71.2
87.5°	47.1	48.1	39.1	35.1	37.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)