

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: P291960

Luminaire Tested: **22GR-LD5-43-F125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291960  
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-LD5-43-F125-UNV-L83050-W2A1-U-3500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4354.0 lumens  
Efficiency: N/A  
Efficacy: 123.9 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

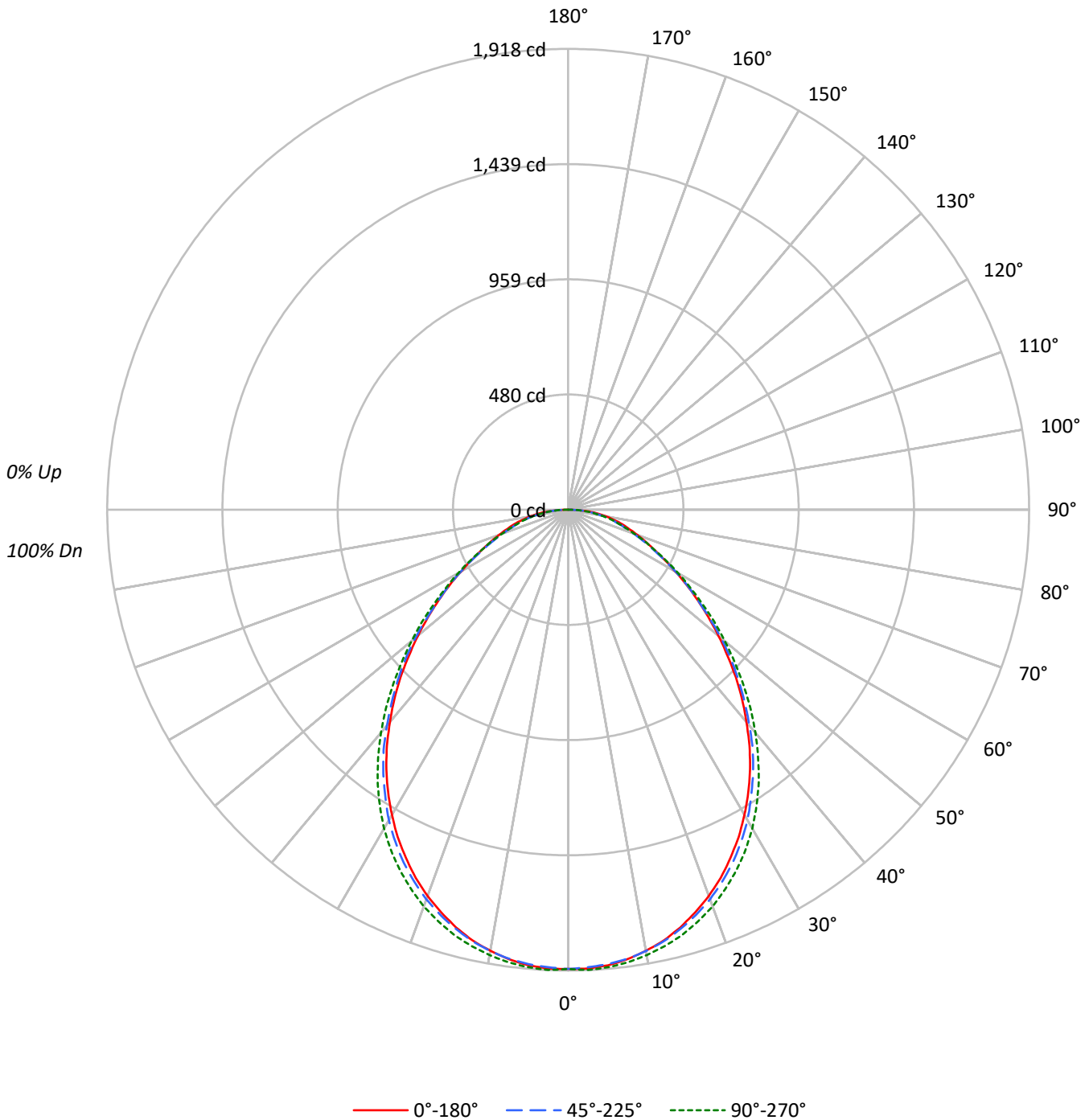
Input Watts (W): 35.154  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5144	5144	5144
5°	5141	5128	5163
10°	5093	5096	5143
15°	5015	5032	5105
20°	4898	4941	5031
25°	4745	4812	4916
30°	4558	4637	4759
35°	4334	4404	4540
40°	4053	4120	4255
45°	3752	3810	3922
50°	3417	3472	3561
55°	3086	3095	3185
60°	2767	2778	2844
65°	2521	2470	2528
70°	2400	2265	2305
75°	2416	2184	2195
80°	2504	2207	2191
85°	2745	2340	2214



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.6	4.1
10°-20°	510.1	11.7
20°-30°	746.6	17.1
30°-40°	839.5	19.3
40°-50°	774.2	17.8
50°-60°	596.7	13.7
60°-70°	393.7	9.0
70°-80°	229.2	5.3
80°-90°	83.5	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°	1437.3	33.0
0°-40°	2276.8	52.3
0°-60°	3647.6	83.8
0°-90°	4354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4354.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1911	1911	1911	1911	1911	
5°	1903	1899	1898	1907	1911	180
15°	1800	1800	1806	1822	1833	507
25°	1598	1606	1620	1643	1656	735
35°	1319	1326	1341	1368	1382	823
45°	986	987	1001	1021	1030	759
55°	658	657	660	671	679	590
65°	396	394	388	391	397	397
75°	232	222	210	206	211	245
85°	89	88	76	70	72	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1911.4	1911.4	1911.4	1911.4	1911.4
2.5°	1911.4	1907.4	1906.4	1913.4	1917.5
5°	1903.3	1899.3	1898.3	1907.4	1911.4
7.5°	1887.2	1884.1	1885.2	1895.3	1900.3
10°	1863.9	1862.9	1865.0	1876.1	1882.1
12.5°	1836.7	1835.7	1839.7	1851.8	1859.9
15°	1800.3	1800.3	1806.4	1822.5	1832.6
17.5°	1756.9	1759.9	1769.0	1785.1	1796.3
20°	1710.4	1713.4	1725.5	1743.7	1756.9
22.5°	1658.9	1662.9	1675.0	1697.2	1708.4
25°	1598.2	1606.3	1620.5	1642.7	1655.8
27.5°	1535.6	1544.7	1557.8	1585.1	1597.2
30°	1466.9	1473.0	1492.2	1517.4	1531.6
32.5°	1394.2	1400.2	1416.4	1446.7	1458.8
35°	1319.4	1325.5	1340.6	1367.9	1382.0
37.5°	1238.6	1243.6	1261.8	1283.0	1298.2
40°	1153.7	1160.8	1172.9	1198.2	1211.3
42.5°	1070.9	1073.9	1087.0	1112.3	1122.4
45°	986.0	987.0	1001.2	1021.4	1030.5
47.5°	898.1	900.1	917.3	929.4	938.5
50°	816.3	817.3	829.4	840.5	850.6
52.5°	734.5	734.5	740.5	752.6	765.8
55°	657.7	656.7	659.7	670.8	678.9
57.5°	584.9	583.9	588.0	595.0	601.1
60°	514.2	512.2	516.2	520.3	528.4
62.5°	451.6	453.6	448.6	454.6	460.7
65°	396.0	394.0	387.9	391.0	397.0
67.5°	348.5	345.5	335.4	337.4	344.5
70°	305.1	299.0	287.9	287.9	293.0
72.5°	265.7	259.6	245.5	246.5	248.5
75°	232.4	222.3	210.1	206.1	211.1
77.5°	196.0	187.9	176.8	173.8	175.8
80°	161.6	155.6	142.4	138.4	141.4
82.5°	128.3	123.3	108.1	105.1	106.1
85°	88.9	87.9	75.8	69.7	71.7
87.5°	47.5	48.5	39.4	35.4	37.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)