

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: P475971

Luminaire Tested: **22GR-LD5-43-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475971  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-43-F125-UNV-L850-CD1-U  
Description: GR 2'X2' LED TROFFER w/ F125 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4444.1 lumens  
Efficiency: N/A  
Efficacy: 127.7 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

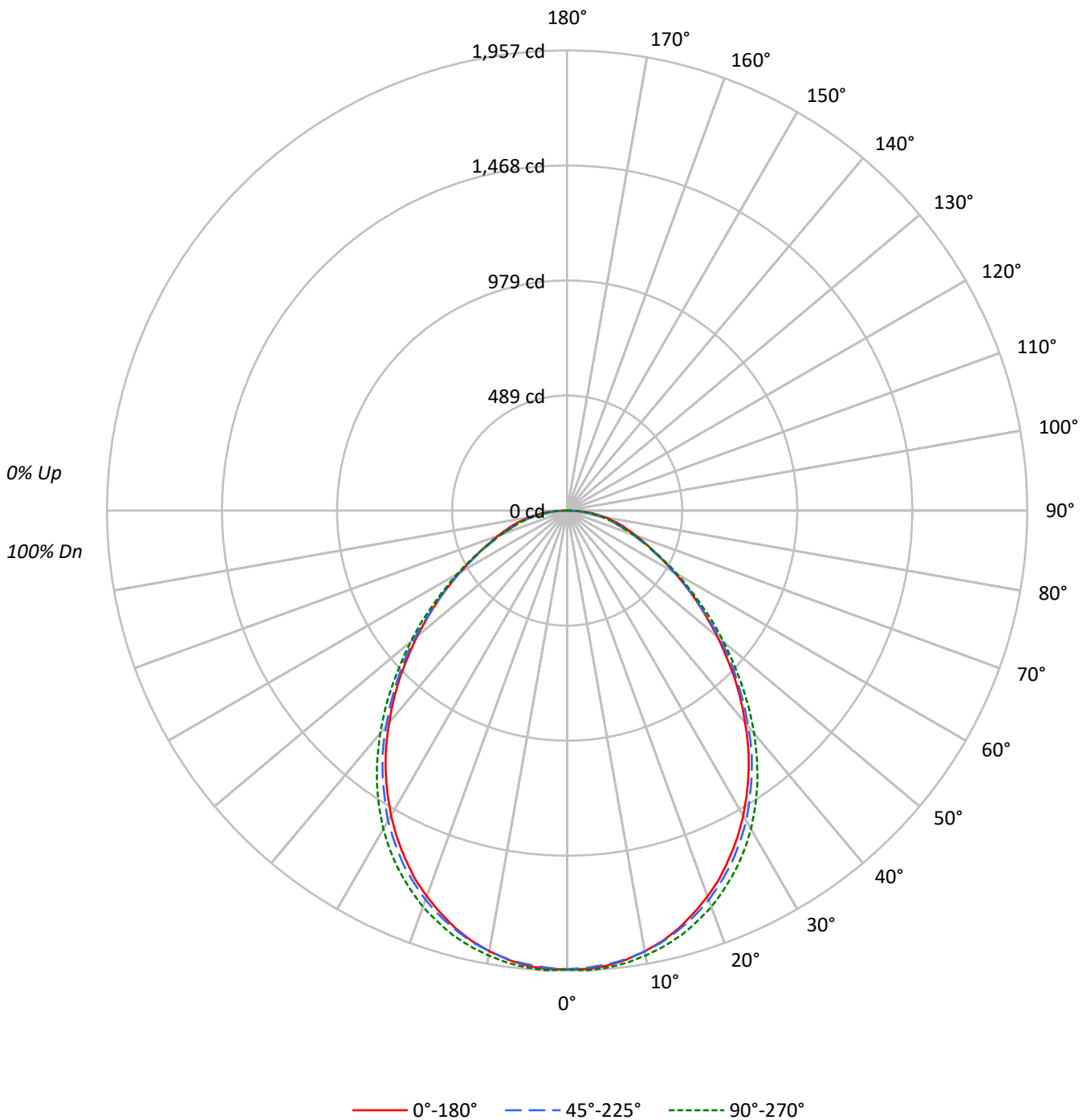
Input Watts (W): 34.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

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

	0°	45°	90°
0°	5250	5250	5250
5°	5248	5234	5270
10°	5199	5202	5250
15°	5120	5136	5212
20°	4999	5044	5135
25°	4844	4911	5018
30°	4652	4733	4857
35°	4424	4495	4634
40°	4137	4205	4343
45°	3830	3889	4002
50°	3488	3544	3635
55°	3150	3159	3251
60°	2825	2835	2903
65°	2574	2521	2579
70°	2449	2312	2353
75°	2465	2229	2241
80°	2559	2253	2236
85°	2803	2384	2257



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.3	4.1
10°-20°	520.7	11.7
20°-30°	762.1	17.1
30°-40°	856.8	19.3
40°-50°	790.2	17.8
50°-60°	609.0	13.7
60°-70°	401.9	9.0
70°-80°	233.9	5.3
80°-90°	85.2	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°	1467.1	33.0
0°-40°	2324.0	52.3
0°-60°	3723.2	83.8
0°-90°	4444.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4444.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1951	1951	1951	1951	1951	
5°	1943	1939	1938	1947	1951	184
15°	1838	1838	1844	1860	1871	517
25°	1631	1640	1654	1677	1690	750
35°	1347	1353	1368	1396	1411	840
45°	1006	1008	1022	1042	1052	775
55°	671	670	673	685	693	602
65°	404	402	396	399	405	405
75°	237	227	214	210	216	250
85°	91	90	77	71	73	96
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1950.9	1950.9	1950.9	1950.9	1950.9
2.5°	1950.9	1946.8	1945.7	1953.1	1957.2
5°	1942.7	1938.6	1937.5	1946.8	1950.9
7.5°	1926.3	1923.1	1924.2	1934.5	1939.7
10°	1902.6	1901.5	1903.7	1914.9	1921.2
12.5°	1874.8	1873.7	1877.8	1890.1	1898.5
15°	1837.7	1837.7	1843.7	1860.3	1870.7
17.5°	1793.2	1796.2	1805.5	1822.1	1833.3
20°	1745.7	1749.0	1761.3	1779.8	1793.2
22.5°	1693.1	1697.4	1709.7	1732.4	1743.8
25°	1631.4	1639.6	1654.1	1676.7	1690.1
27.5°	1567.3	1576.6	1590.0	1618.1	1630.3
30°	1497.2	1503.5	1523.1	1548.8	1563.2
32.5°	1423.0	1429.3	1445.6	1476.7	1489.0
35°	1346.6	1352.9	1368.4	1396.3	1410.7
37.5°	1264.2	1269.4	1288.0	1309.5	1325.1
40°	1177.7	1184.8	1197.1	1223.0	1236.4
42.5°	1093.2	1096.2	1109.5	1135.5	1145.5
45°	1006.4	1007.5	1022.0	1042.4	1051.7
47.5°	916.7	918.8	936.3	948.6	957.8
50°	833.2	834.3	846.5	858.0	868.4
52.5°	749.7	749.7	756.0	768.2	781.6
55°	671.4	670.3	673.3	684.8	692.9
57.5°	597.2	596.1	600.2	607.3	613.6
60°	524.9	522.7	526.8	531.2	539.4
62.5°	461.1	463.0	457.8	464.1	470.3
65°	404.3	402.1	395.9	399.1	405.1
67.5°	355.7	352.7	342.4	344.3	351.7
70°	311.3	305.3	293.8	293.8	299.0
72.5°	271.2	264.9	250.4	251.5	253.7
75°	237.1	227.0	214.4	210.3	215.5
77.5°	200.0	191.8	180.3	177.3	179.5
80°	165.1	158.8	145.4	141.3	144.3
82.5°	131.0	125.8	110.2	107.2	108.3
85°	90.8	89.8	77.2	71.2	73.1
87.5°	48.6	49.4	40.1	36.0	38.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)