

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: P292022

Luminaire Tested: **22GR-LD5-43-F125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292022
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-L82765-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: 4423.0 lumens
Efficiency: N/A
Efficacy: 123.5 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

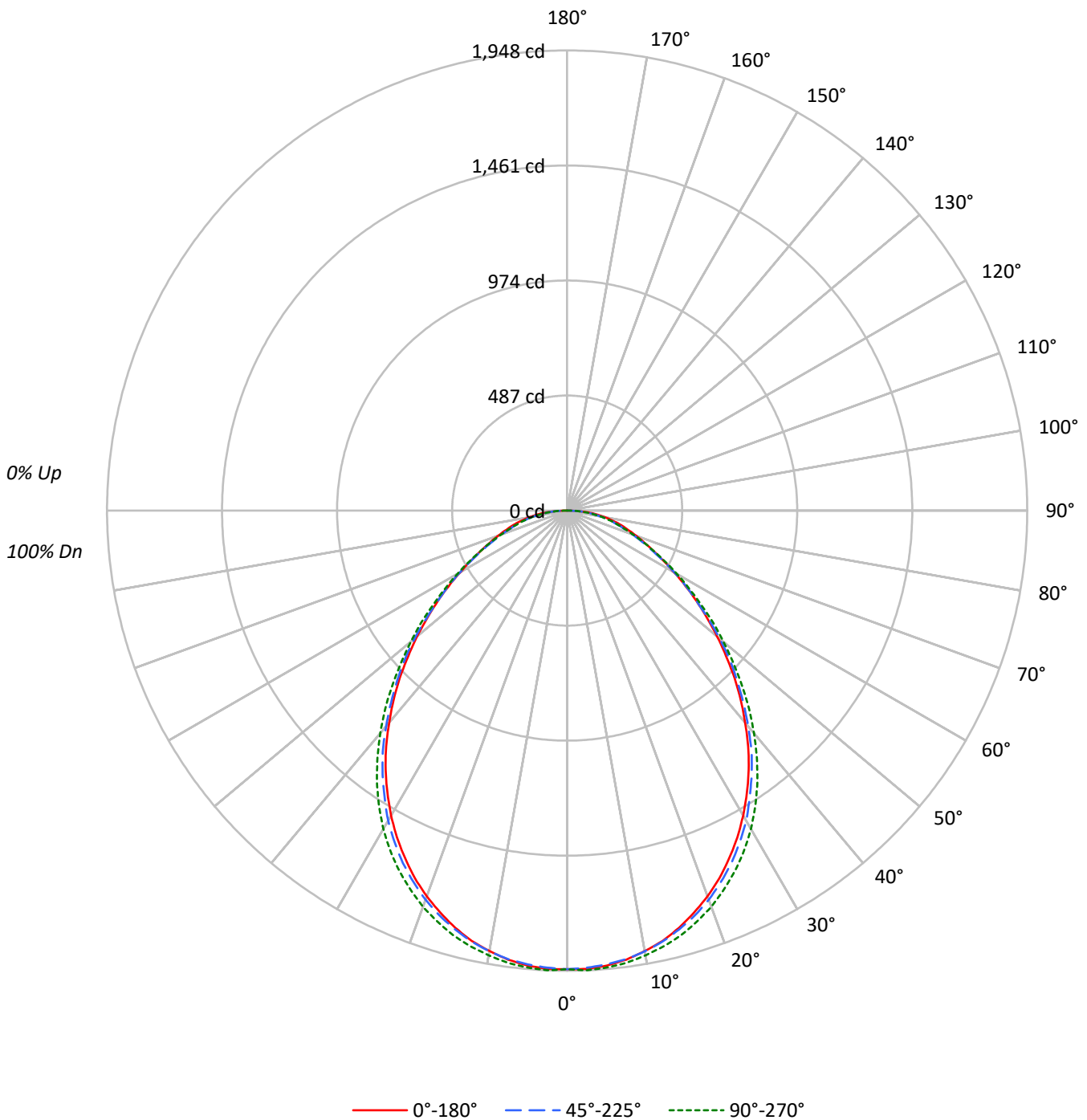
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
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°	5225	5225	5225
5°	5223	5209	5245
10°	5174	5177	5225
15°	5095	5112	5187
20°	4976	5020	5111
25°	4821	4888	4994
30°	4630	4710	4834
35°	4403	4474	4612
40°	4117	4186	4323
45°	3812	3870	3984
50°	3471	3527	3617
55°	3134	3144	3236
60°	2812	2822	2888
65°	2562	2509	2568
70°	2438	2301	2341
75°	2454	2220	2230
80°	2545	2242	2227
85°	2788	2377	2251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	4.1
10°-20°	518.2	11.7
20°-30°	758.5	17.1
30°-40°	852.8	19.3
40°-50°	786.4	17.8
50°-60°	606.1	13.7
60°-70°	400.0	9.0
70°-80°	232.8	5.3
80°-90°	84.8	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°	1460.1	33.0
0°-40°	2312.9	52.3
0°-60°	3705.5	83.8
0°-90°	4423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4423.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1942	1942	1942	1942	1942	
5°	1934	1929	1928	1938	1942	183
15°	1829	1829	1835	1851	1862	515
25°	1624	1632	1646	1669	1682	747
35°	1340	1346	1362	1390	1404	836
45°	1002	1003	1017	1038	1047	771
55°	668	667	670	681	690	599
65°	402	400	394	397	403	403
75°	236	226	214	209	214	249
85°	90	89	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°	1941.7	1941.7	1941.7	1941.7	1941.7
2.5°	1941.7	1937.6	1936.6	1943.8	1947.9
5°	1933.5	1929.4	1928.4	1937.6	1941.7
7.5°	1917.1	1914.0	1915.0	1925.3	1930.4
10°	1893.5	1892.5	1894.5	1905.8	1912.0
12.5°	1865.8	1864.7	1868.8	1881.2	1889.4
15°	1828.8	1828.8	1835.0	1851.4	1861.7
17.5°	1784.7	1787.8	1797.0	1813.4	1824.7
20°	1737.5	1740.6	1752.9	1771.4	1784.7
22.5°	1685.1	1689.3	1701.6	1724.1	1735.4
25°	1623.6	1631.8	1646.1	1668.7	1682.1
27.5°	1559.9	1569.2	1582.5	1610.2	1622.5
30°	1490.2	1496.3	1515.8	1541.5	1555.8
32.5°	1416.3	1422.4	1438.8	1469.6	1481.9
35°	1340.3	1346.5	1361.9	1389.6	1403.9
37.5°	1258.2	1263.3	1281.8	1303.4	1318.8
40°	1172.0	1179.2	1191.5	1217.2	1230.5
42.5°	1087.9	1090.9	1104.3	1129.9	1140.2
45°	1001.6	1002.7	1017.0	1037.6	1046.8
47.5°	912.4	914.4	931.9	944.2	953.4
50°	829.2	830.3	842.6	853.9	864.1
52.5°	746.1	746.1	752.3	764.6	777.9
55°	668.1	667.1	670.2	681.4	689.7
57.5°	594.2	593.2	597.3	604.5	610.6
60°	522.4	520.3	524.4	528.5	536.7
62.5°	458.7	460.8	455.7	461.8	468.0
65°	402.3	400.2	394.1	397.2	403.3
67.5°	354.1	351.0	340.7	342.8	350.0
70°	309.9	303.8	292.5	292.5	297.6
72.5°	269.9	263.8	249.4	250.4	252.5
75°	236.0	225.8	213.5	209.4	214.5
77.5°	199.1	190.9	179.6	176.5	178.6
80°	164.2	158.0	144.7	140.6	143.7
82.5°	130.3	125.2	109.8	106.7	107.8
85°	90.3	89.3	77.0	70.8	72.9
87.5°	48.2	49.3	40.0	35.9	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)