

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: P292023

Luminaire Tested: **22GR-LD5-43-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292023
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-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4483.0 lumens
Efficiency: N/A
Efficacy: 124.6 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

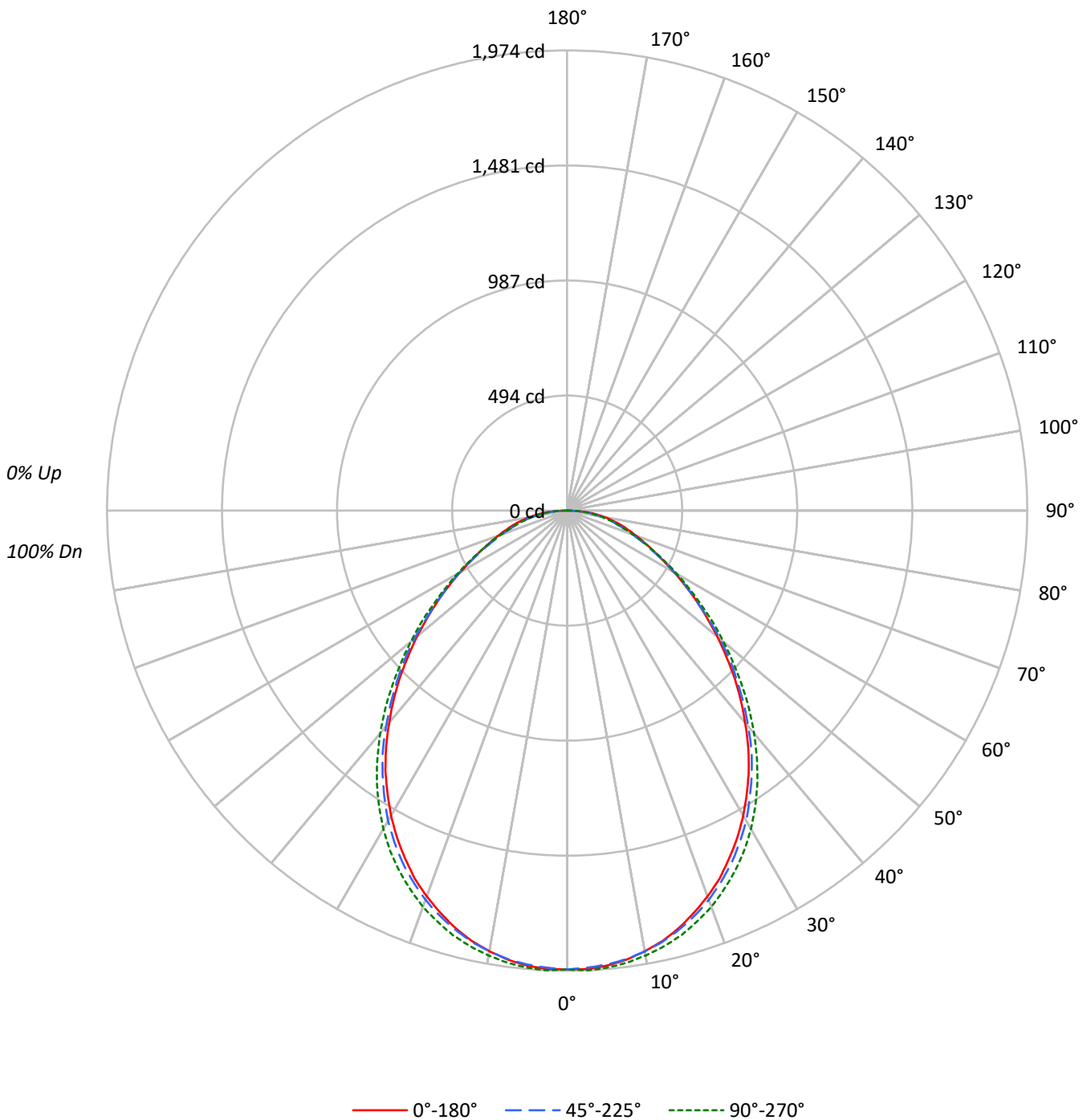
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5296	5296	5296
5°	5294	5280	5316
10°	5244	5247	5295
15°	5164	5182	5257
20°	5043	5088	5180
25°	4886	4954	5062
30°	4693	4774	4900
35°	4463	4534	4675
40°	4173	4242	4381
45°	3863	3923	4038
50°	3519	3575	3666
55°	3177	3187	3279
60°	2850	2861	2928
65°	2597	2543	2603
70°	2471	2333	2374
75°	2487	2250	2260
80°	2579	2273	2256
85°	2825	2408	2282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.9	4.1
10°-20°	525.2	11.7
20°-30°	768.8	17.1
30°-40°	864.3	19.3
40°-50°	797.1	17.8
50°-60°	614.3	13.7
60°-70°	405.4	9.0
70°-80°	235.9	5.3
80°-90°	86.0	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°	1479.9	33.0
0°-40°	2344.3	52.3
0°-60°	3755.7	83.8
0°-90°	4483.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4483.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1968	1968	1968	1968	1968	
5°	1960	1956	1954	1964	1968	186
15°	1854	1854	1860	1876	1887	522
25°	1646	1654	1668	1691	1705	757
35°	1358	1365	1380	1408	1423	847
45°	1015	1016	1031	1052	1061	782
55°	677	676	679	691	699	608
65°	408	406	399	403	409	409
75°	239	229	216	212	217	252
85°	92	90	78	72	74	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1968.1	1968.1	1968.1	1968.1	1968.1
2.5°	1968.1	1963.9	1962.9	1970.1	1974.3
5°	1959.7	1955.6	1954.5	1963.9	1968.1
7.5°	1943.1	1940.0	1941.0	1951.4	1956.6
10°	1919.2	1918.1	1920.2	1931.6	1937.9
12.5°	1891.1	1890.0	1894.2	1906.7	1915.0
15°	1853.6	1853.6	1859.9	1876.5	1886.9
17.5°	1808.9	1812.0	1821.4	1838.0	1849.5
20°	1761.1	1764.2	1776.7	1795.4	1808.9
22.5°	1708.0	1712.2	1724.6	1747.5	1759.0
25°	1645.6	1653.9	1668.5	1691.4	1704.9
27.5°	1581.1	1590.5	1604.0	1632.1	1644.6
30°	1510.4	1516.6	1536.4	1562.4	1576.9
32.5°	1435.5	1441.7	1458.4	1489.6	1502.0
35°	1358.5	1364.7	1380.3	1408.4	1423.0
37.5°	1275.3	1280.5	1299.2	1321.1	1336.7
40°	1187.9	1195.2	1207.7	1233.7	1247.2
42.5°	1102.6	1105.7	1119.3	1145.3	1155.7
45°	1015.2	1016.3	1030.8	1051.6	1061.0
47.5°	924.7	926.8	944.5	957.0	966.3
50°	840.5	841.5	854.0	865.4	875.8
52.5°	756.2	756.2	762.5	774.9	788.5
55°	677.2	676.1	679.2	690.7	699.0
57.5°	602.3	601.2	605.4	612.7	618.9
60°	529.5	527.4	531.5	535.7	544.0
62.5°	465.0	467.0	461.8	468.1	474.3
65°	407.8	405.7	399.4	402.6	408.8
67.5°	358.9	355.7	345.3	347.4	354.7
70°	314.1	307.9	296.5	296.5	301.7
72.5°	273.6	267.3	252.8	253.8	255.9
75°	239.2	228.8	216.4	212.2	217.4
77.5°	201.8	193.5	182.0	178.9	181.0
80°	166.4	160.2	146.7	142.5	145.6
82.5°	132.1	126.9	111.3	108.2	109.2
85°	91.5	90.5	78.0	71.8	73.9
87.5°	48.9	49.9	40.6	36.4	38.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)