

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: P290846

Luminaire Tested: **14GR-LD5-43-F125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-F125-UNV-L82765-W2A1-U-4500K
Description: GRLED 1x4 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: 4432.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

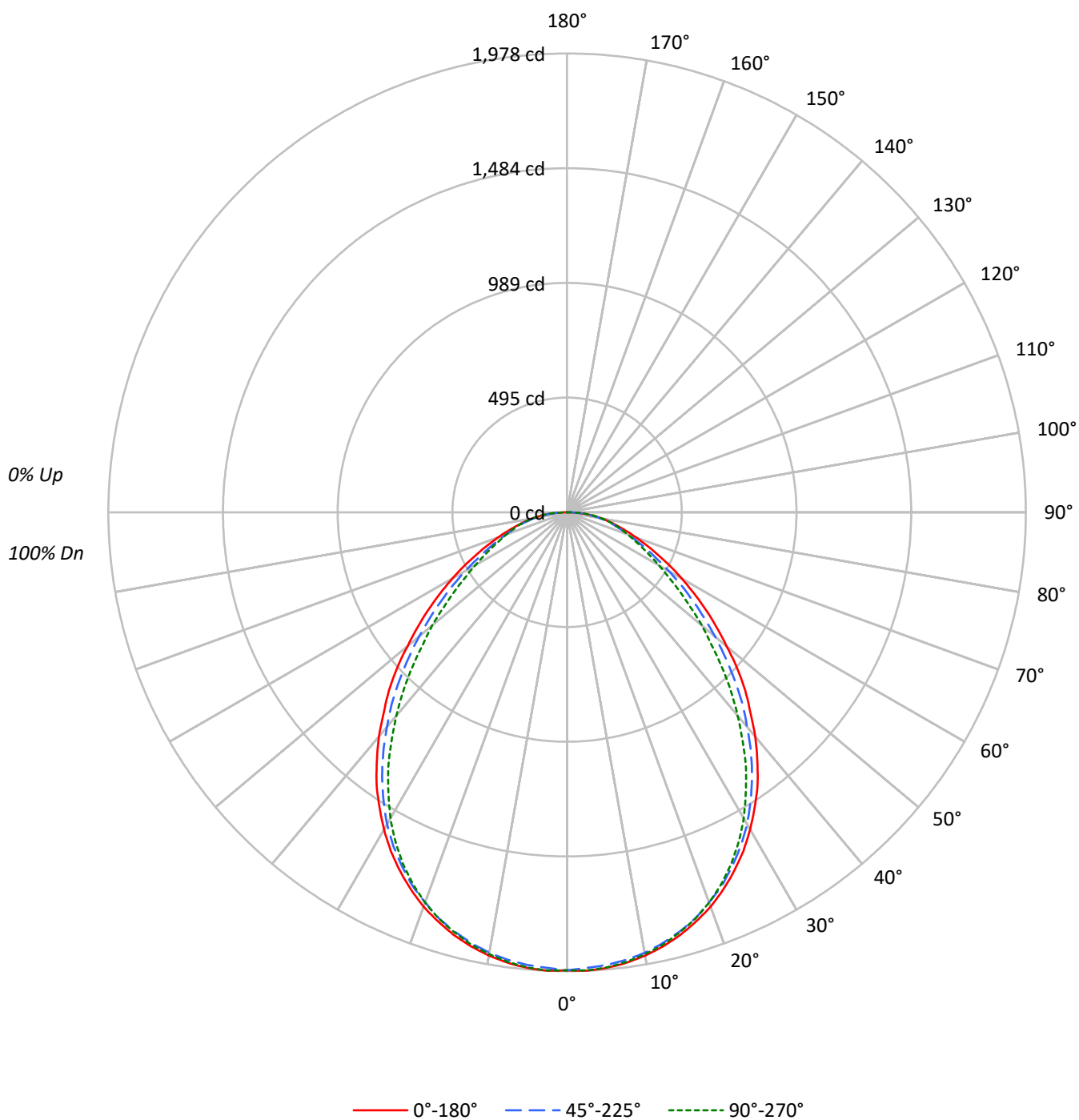
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	60	52	46	71	60	52	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	47	41	53	46	41		51	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5313	5313	5313
5°	5325	5291	5319
10°	5301	5267	5284
15°	5254	5214	5222
20°	5180	5124	5127
25°	5062	5001	4967
30°	4907	4823	4732
35°	4706	4569	4419
40°	4432	4243	4020
45°	4133	3884	3595
50°	3759	3484	3175
55°	3421	3089	2767
60°	3068	2721	2458
65°	2735	2424	2259
70°	2488	2210	2186
75°	2326	2152	2260
80°	2337	2225	2354
85°	2442	2282	2603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	4.2
10°-20°	529.3	11.9
20°-30°	776.0	17.5
30°-40°	866.1	19.5
40°-50°	784.2	17.7
50°-60°	592.1	13.4
60°-70°	387.1	8.7
70°-80°	227.3	5.1
80°-90°	83.2	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°	1492.0	33.7
0°-40°	2358.1	53.2
0°-60°	3734.4	84.3
0°-90°	4432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4432.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1974	1974	1974	1974	1974	
5°	1971	1967	1959	1970	1969	187
15°	1886	1883	1871	1882	1875	531
25°	1705	1699	1684	1681	1673	784
35°	1432	1420	1391	1360	1345	892
45°	1086	1069	1020	965	945	834
55°	729	713	658	606	590	652
65°	430	416	381	359	355	431
75°	224	217	207	211	217	240
85°	79	76	74	83	84	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1974.4	1974.4	1974.4	1974.4	1974.4
2.5°	1977.5	1974.4	1965.1	1977.5	1976.5
5°	1971.3	1967.1	1958.8	1970.3	1969.2
7.5°	1958.8	1954.7	1946.3	1956.7	1954.7
10°	1940.1	1935.9	1927.6	1939.1	1933.9
12.5°	1916.2	1912.0	1902.6	1913.1	1908.9
15°	1886.0	1882.9	1871.4	1881.8	1874.6
17.5°	1849.6	1844.4	1836.1	1842.3	1837.1
20°	1809.0	1802.8	1789.3	1795.5	1790.3
22.5°	1760.1	1751.8	1742.4	1742.4	1735.2
25°	1705.0	1698.8	1684.2	1681.1	1672.8
27.5°	1645.7	1640.5	1621.8	1616.6	1602.0
30°	1579.1	1571.8	1552.1	1535.4	1523.0
32.5°	1505.3	1500.1	1473.0	1451.2	1433.5
35°	1432.4	1420.0	1390.8	1359.6	1345.1
37.5°	1347.1	1337.8	1301.4	1262.9	1243.1
40°	1261.8	1250.4	1207.8	1165.1	1144.3
42.5°	1169.3	1158.9	1118.3	1067.3	1045.5
45°	1086.0	1069.4	1020.5	965.4	944.6
47.5°	994.5	976.8	924.8	866.5	842.6
50°	897.8	886.3	832.2	776.0	758.4
52.5°	811.4	793.7	742.8	687.6	668.9
55°	729.2	712.6	658.5	606.5	589.8
57.5°	647.0	628.3	581.5	534.7	518.1
60°	570.1	551.3	505.6	467.1	456.7
62.5°	500.4	479.6	439.0	408.8	401.5
65°	429.6	416.1	380.7	358.9	354.7
67.5°	370.3	353.7	325.6	315.2	313.1
70°	316.2	304.8	280.9	277.8	277.8
72.5°	267.3	258.0	240.3	242.4	245.5
75°	223.7	217.4	207.0	211.2	217.4
77.5°	186.2	180.0	173.7	180.0	184.1
80°	150.8	144.6	143.6	148.8	151.9
82.5°	113.4	108.2	109.2	117.6	120.7
85°	79.1	75.9	73.9	83.2	84.3
87.5°	40.6	38.5	37.4	44.7	42.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)