

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: P290841

Luminaire Tested: **14GR-LD5-40-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290841
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-LD5-40-F125-UNV-L82765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4275.0 lumens
Efficiency: N/A
Efficacy: 121.6 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

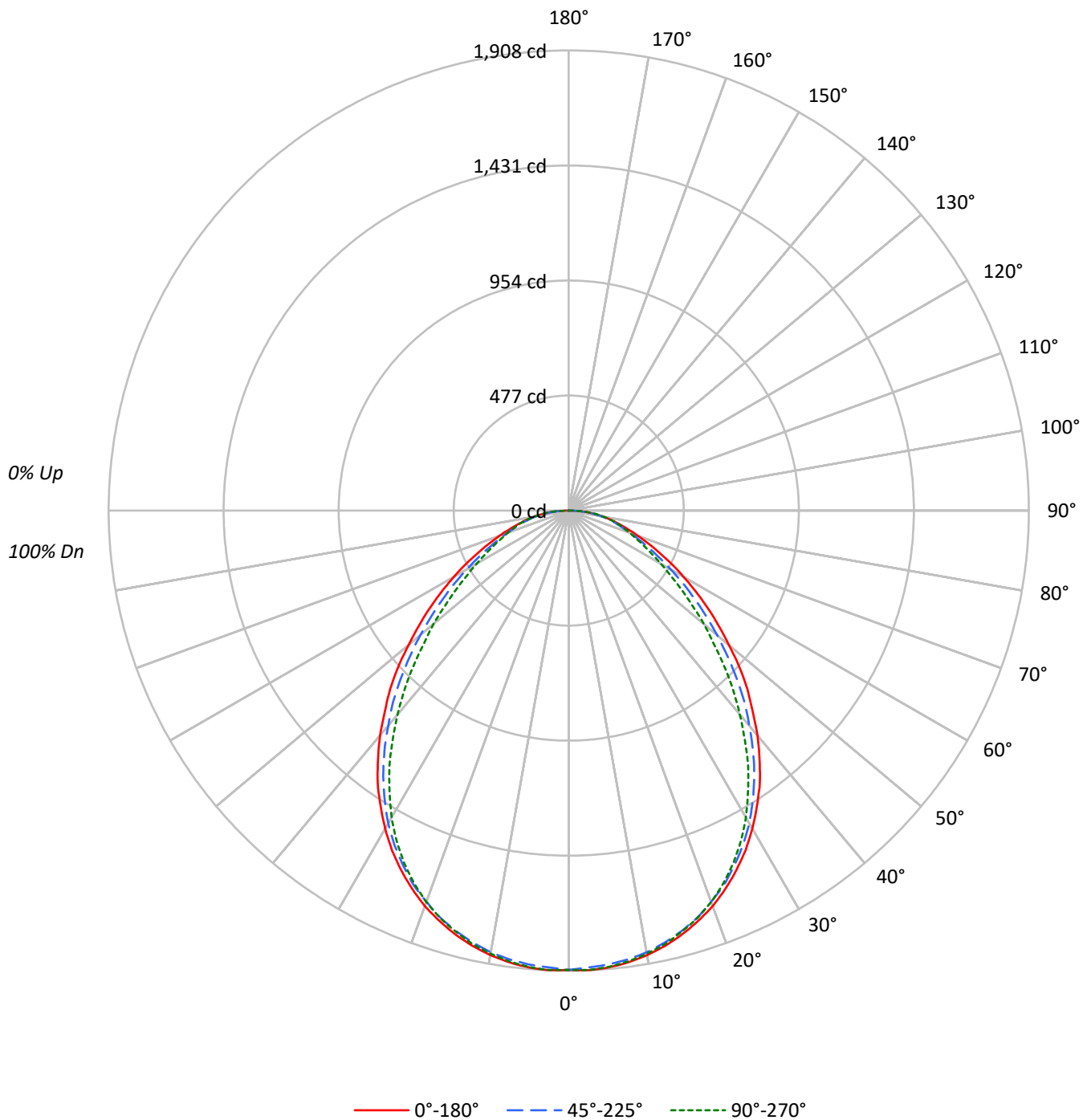
Input Watts (W): 35.154
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		85
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		73
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		63
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		55
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		48
6	73	60	52	46	71	60	52	46	58	51	45		56	50	45		43
7	68	55	47	41	66	54	47	41	53	46	41		51	45	40		38
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		34
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		31
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5125	5125	5125
5°	5136	5104	5131
10°	5114	5081	5097
15°	5068	5029	5037
20°	4997	4942	4945
25°	4883	4823	4791
30°	4733	4652	4565
35°	4539	4407	4262
40°	4275	4092	3877
45°	3987	3746	3467
50°	3625	3360	3062
55°	3300	2980	2669
60°	2960	2625	2371
65°	2639	2339	2179
70°	2400	2131	2108
75°	2243	2076	2180
80°	2255	2146	2270
85°	2356	2198	2510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	4.2
10°-20°	510.5	11.9
20°-30°	748.5	17.5
30°-40°	835.5	19.5
40°-50°	756.4	17.7
50°-60°	571.1	13.4
60°-70°	373.3	8.7
70°-80°	219.3	5.1
80°-90°	80.3	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°	1439.1	33.7
0°-40°	2274.6	53.2
0°-60°	3602.1	84.3
0°-90°	4275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1904	1904	1904	1904	1904	
5°	1902	1898	1889	1900	1900	181
15°	1819	1816	1805	1815	1808	513
25°	1645	1639	1624	1622	1614	757
35°	1382	1370	1342	1312	1297	861
45°	1048	1032	984	931	911	805
55°	703	687	635	585	569	629
65°	414	401	367	346	342	416
75°	216	210	200	204	210	232
85°	76	73	71	80	81	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1904.5	1904.5	1904.5	1904.5	1904.5
2.5°	1907.5	1904.5	1895.5	1907.5	1906.5
5°	1901.5	1897.5	1889.4	1900.5	1899.5
7.5°	1889.4	1885.4	1877.4	1887.4	1885.4
10°	1871.4	1867.4	1859.3	1870.4	1865.4
12.5°	1848.3	1844.3	1835.2	1845.3	1841.3
15°	1819.2	1816.2	1805.1	1815.2	1808.2
17.5°	1784.1	1779.1	1771.0	1777.1	1772.0
20°	1744.9	1738.9	1725.9	1731.9	1726.9
22.5°	1697.8	1689.8	1680.7	1680.7	1673.7
25°	1644.6	1638.6	1624.5	1621.5	1613.5
27.5°	1587.4	1582.4	1564.3	1559.3	1545.3
30°	1523.2	1516.2	1497.1	1481.0	1469.0
32.5°	1451.9	1446.9	1420.8	1399.8	1382.7
35°	1381.7	1369.7	1341.6	1311.5	1297.4
37.5°	1299.4	1290.4	1255.3	1218.1	1199.1
40°	1217.1	1206.1	1165.0	1123.8	1103.8
42.5°	1127.8	1117.8	1078.7	1029.5	1008.4
45°	1047.6	1031.5	984.4	931.2	911.1
47.5°	959.3	942.2	892.0	835.8	812.8
50°	865.9	854.9	802.7	748.5	731.5
52.5°	782.7	765.6	716.4	663.3	645.2
55°	703.4	687.3	635.2	585.0	568.9
57.5°	624.1	606.1	560.9	515.8	499.7
60°	549.9	531.8	487.7	450.5	440.5
62.5°	482.6	462.6	423.4	394.3	387.3
65°	414.4	401.4	367.3	346.2	342.2
67.5°	357.2	341.2	314.1	304.0	302.0
70°	305.0	294.0	270.9	267.9	267.9
72.5°	257.9	248.8	231.8	233.8	236.8
75°	215.7	209.7	199.7	203.7	209.7
77.5°	179.6	173.6	167.6	173.6	177.6
80°	145.5	139.5	138.5	143.5	146.5
82.5°	109.4	104.4	105.4	113.4	116.4
85°	76.3	73.2	71.2	80.3	81.3
87.5°	39.1	37.1	36.1	43.1	41.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)