

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: P290639

Luminaire Tested: **14GR-LD5-40-F1-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-F1-UNV-L82765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3995.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

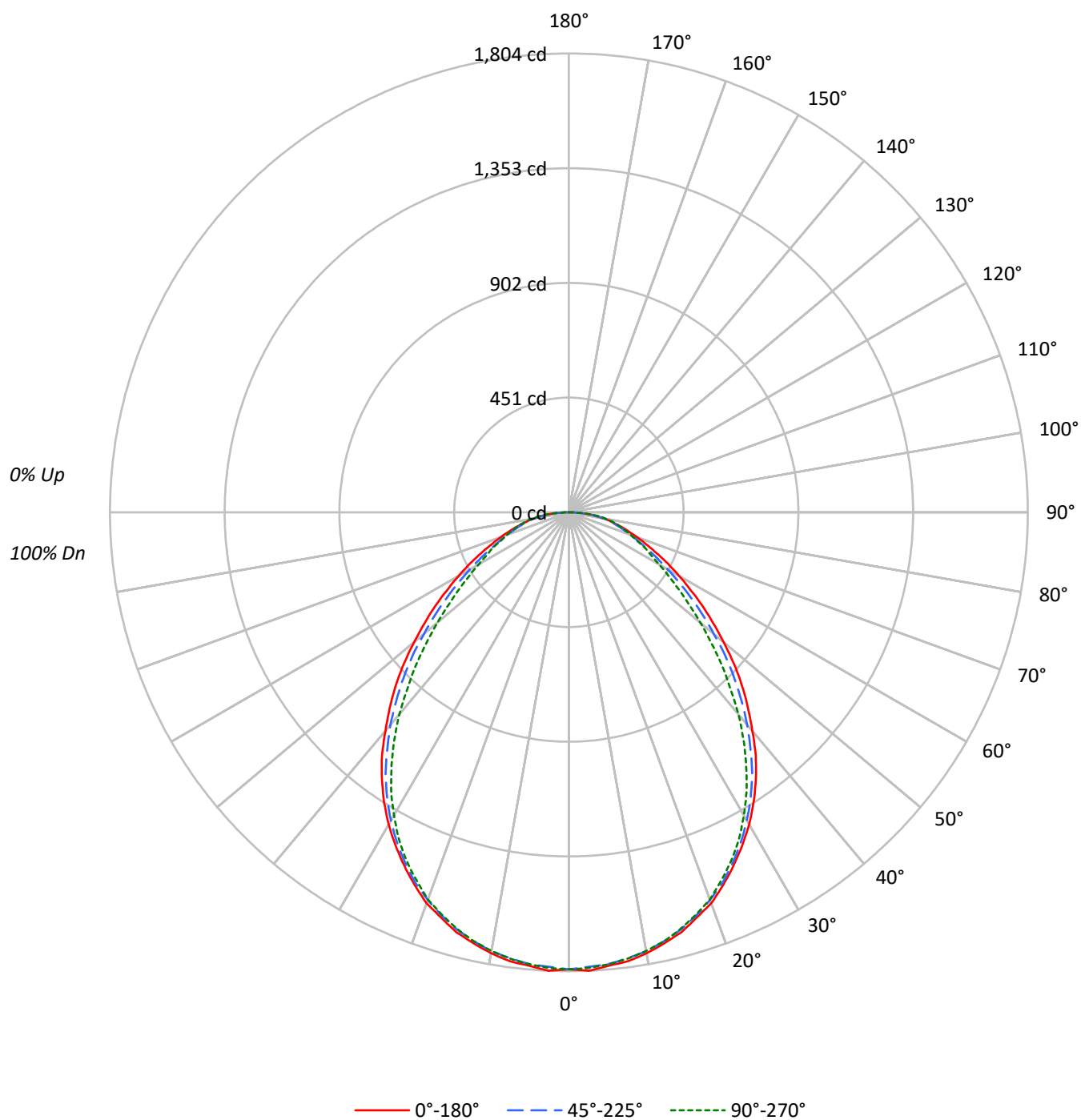
Input Watts (W): 33.852
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4835	4835	4835
5°	4833	4816	4819
10°	4809	4787	4784
15°	4760	4732	4725
20°	4684	4644	4639
25°	4549	4519	4486
30°	4402	4348	4274
35°	4209	4127	3992
40°	3941	3831	3641
45°	3659	3495	3241
50°	3320	3113	2822
55°	3003	2750	2466
60°	2696	2410	2198
65°	2420	2152	2105
70°	2234	2003	2024
75°	2132	2009	2123
80°	2157	2143	2314
85°	2232	2205	2461



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.6	4.2
10°-20°	479.5	12.0
20°-30°	700.2	17.5
30°-40°	780.3	19.5
40°-50°	703.0	17.6
50°-60°	525.5	13.2
60°-70°	346.7	8.7
70°-80°	211.6	5.3
80°-90°	78.5	2.0
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°	1349.3	33.8
0°-40°	2129.6	53.3
0°-60°	3358.2	84.1
0°-90°	3995.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3995.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1797	1797	1797	1797	1797	
5°	1789	1788	1783	1792	1784	170
15°	1709	1702	1699	1709	1696	481
25°	1532	1526	1522	1525	1511	705
35°	1281	1270	1256	1234	1215	799
45°	962	951	918	876	852	740
55°	640	630	586	538	526	573
65°	380	368	338	324	331	381
75°	205	202	193	200	204	219
85°	72	70	71	79	80	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1796.7	1796.7	1796.7	1796.7	1796.7
2.5°	1804.0	1795.7	1788.4	1799.4	1793.0
5°	1789.3	1787.5	1782.9	1792.1	1783.8
7.5°	1780.2	1773.8	1768.3	1779.3	1770.1
10°	1760.0	1756.4	1751.8	1760.9	1750.9
12.5°	1735.3	1731.6	1727.1	1738.0	1727.1
15°	1708.7	1702.3	1698.7	1708.7	1695.9
17.5°	1670.3	1667.5	1662.0	1672.1	1659.3
20°	1635.5	1625.4	1621.7	1629.1	1619.9
22.5°	1585.1	1577.8	1576.9	1581.5	1565.9
25°	1532.0	1526.5	1521.9	1524.7	1510.9
27.5°	1476.1	1468.8	1463.3	1462.4	1447.8
30°	1416.6	1407.5	1399.2	1391.9	1375.4
32.5°	1351.6	1340.6	1329.6	1317.7	1300.3
35°	1281.1	1270.1	1256.4	1234.4	1215.2
37.5°	1206.9	1194.1	1172.1	1146.5	1127.3
40°	1121.8	1115.4	1090.6	1057.7	1036.6
42.5°	1042.1	1034.8	1003.6	967.0	938.6
45°	961.5	951.4	918.5	876.3	851.6
47.5°	879.1	869.0	832.4	780.2	758.2
50°	793.0	787.5	743.6	696.0	674.0
52.5°	714.3	707.9	663.0	615.4	595.2
55°	640.1	630.0	586.1	537.5	525.6
57.5°	565.9	554.9	513.7	472.5	464.3
60°	500.9	487.2	447.8	415.7	408.4
62.5°	439.5	424.0	391.0	366.3	362.6
65°	380.0	368.1	337.9	324.2	330.6
67.5°	328.7	316.8	294.9	289.4	287.5
70°	283.9	272.9	254.6	256.4	257.3
72.5°	242.7	236.3	222.5	227.1	230.8
75°	205.1	201.5	193.2	199.6	204.2
77.5°	171.2	168.5	164.8	170.3	177.7
80°	139.2	137.4	138.3	141.9	149.3
82.5°	107.1	103.5	106.2	113.5	118.1
85°	72.3	69.6	71.4	78.8	79.7
87.5°	33.9	33.9	33.0	38.5	38.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)