

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: P290877

Luminaire Tested: **14GR-LD5-40-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290877
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-L93050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3477.0 lumens
Efficiency: N/A
Efficacy: 101.3 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

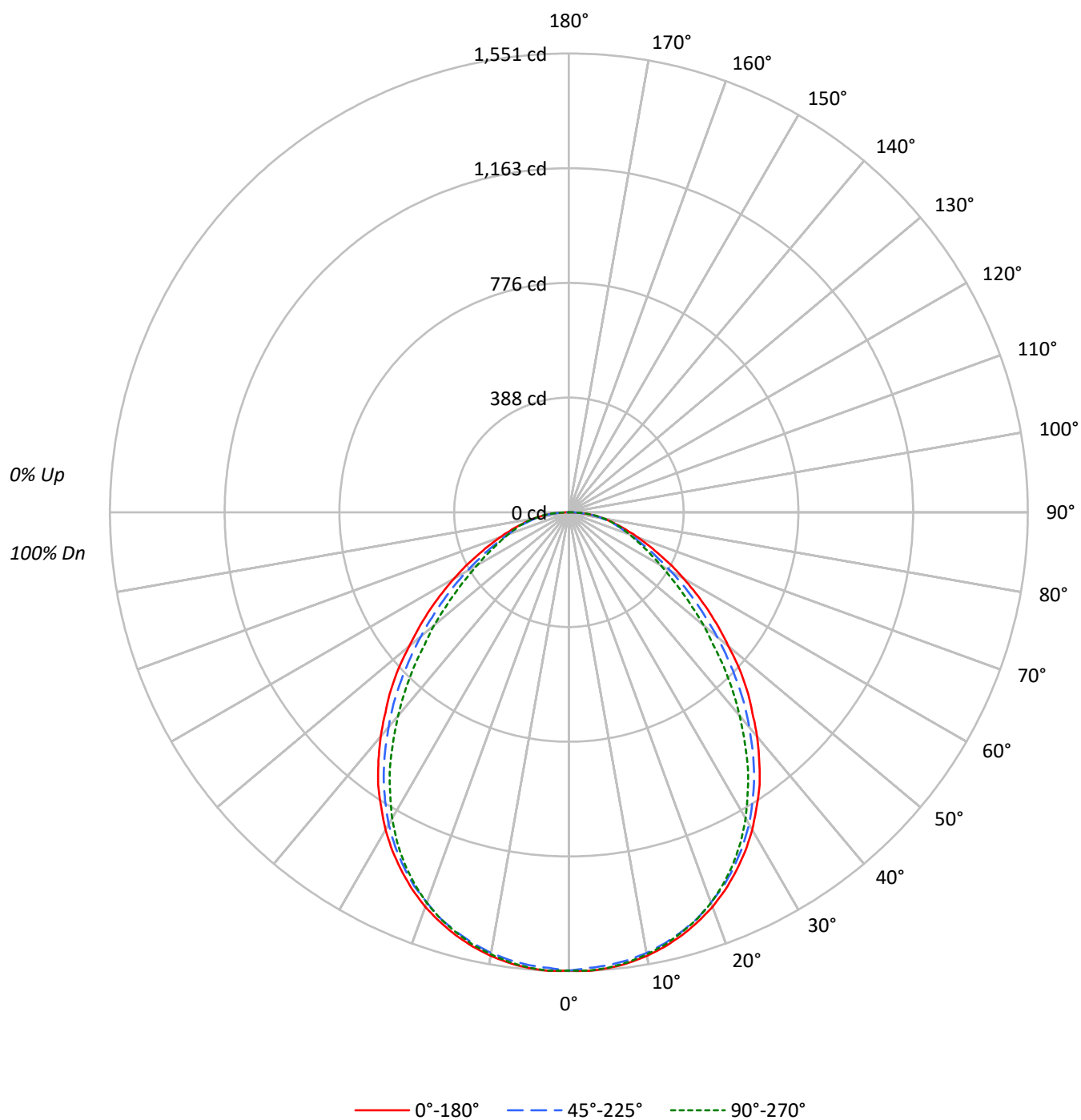
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4168	4168	4168
5°	4177	4151	4173
10°	4159	4132	4146
15°	4122	4090	4097
20°	4064	4020	4022
25°	3972	3923	3896
30°	3850	3783	3713
35°	3692	3584	3466
40°	3477	3328	3153
45°	3242	3047	2820
50°	2948	2733	2491
55°	2684	2424	2171
60°	2407	2134	1928
65°	2146	1902	1772
70°	1952	1734	1714
75°	1825	1688	1774
80°	1833	1745	1847
85°	1914	1788	2041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	4.2
10°-20°	415.2	11.9
20°-30°	608.8	17.5
30°-40°	679.5	19.5
40°-50°	615.2	17.7
50°-60°	464.5	13.4
60°-70°	303.6	8.7
70°-80°	178.4	5.1
80°-90°	65.3	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°	1170.5	33.7
0°-40°	1850.0	53.2
0°-60°	2929.7	84.3
0°-90°	3477.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3477.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1549	1549	1549	1549	1549	
5°	1546	1543	1537	1546	1545	147
15°	1480	1477	1468	1476	1471	417
25°	1338	1333	1321	1319	1312	615
35°	1124	1114	1091	1067	1055	700
45°	852	839	801	757	741	655
55°	572	559	517	476	463	512
65°	337	326	299	282	278	338
75°	176	171	162	166	171	188
85°	62	60	58	65	66	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1549.0	1549.0	1549.0	1549.0	1549.0
2.5°	1551.4	1549.0	1541.6	1551.4	1550.6
5°	1546.5	1543.3	1536.7	1545.7	1544.9
7.5°	1536.7	1533.5	1526.9	1535.1	1533.5
10°	1522.0	1518.8	1512.3	1521.2	1517.2
12.5°	1503.3	1500.0	1492.7	1500.8	1497.6
15°	1479.6	1477.2	1468.2	1476.3	1470.6
17.5°	1451.0	1447.0	1440.4	1445.3	1441.3
20°	1419.2	1414.3	1403.7	1408.6	1404.5
22.5°	1380.9	1374.3	1367.0	1367.0	1361.3
25°	1337.6	1332.7	1321.3	1318.8	1312.3
27.5°	1291.1	1287.0	1272.3	1268.2	1256.8
30°	1238.9	1233.1	1217.6	1204.6	1194.8
32.5°	1180.9	1176.8	1155.6	1138.5	1124.6
35°	1123.8	1114.0	1091.1	1066.7	1055.2
37.5°	1056.9	1049.5	1021.0	990.8	975.3
40°	989.9	981.0	947.5	914.0	897.7
42.5°	917.3	909.1	877.3	837.3	820.2
45°	852.0	839.0	800.6	757.4	741.0
47.5°	780.2	766.3	725.5	679.8	661.1
50°	704.3	695.3	652.9	608.8	594.9
52.5°	636.6	622.7	582.7	539.5	524.8
55°	572.1	559.0	516.6	475.8	462.7
57.5°	507.6	492.9	456.2	419.5	406.4
60°	447.2	432.5	396.6	366.4	358.3
62.5°	392.6	376.2	344.4	320.7	315.0
65°	337.1	326.4	298.7	281.6	278.3
67.5°	290.5	277.5	255.4	247.3	245.6
70°	248.1	239.1	220.4	217.9	217.9
72.5°	209.7	202.4	188.5	190.2	192.6
75°	175.5	170.6	162.4	165.7	170.6
77.5°	146.1	141.2	136.3	141.2	144.5
80°	118.3	113.4	112.6	116.7	119.2
82.5°	89.0	84.9	85.7	92.2	94.7
85°	62.0	59.6	57.9	65.3	66.1
87.5°	31.8	30.2	29.4	35.1	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)