

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: P290876

Luminaire Tested: **14GR-LD5-40-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290876
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3182.0 lumens
Efficiency: N/A
Efficacy: 92.5 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

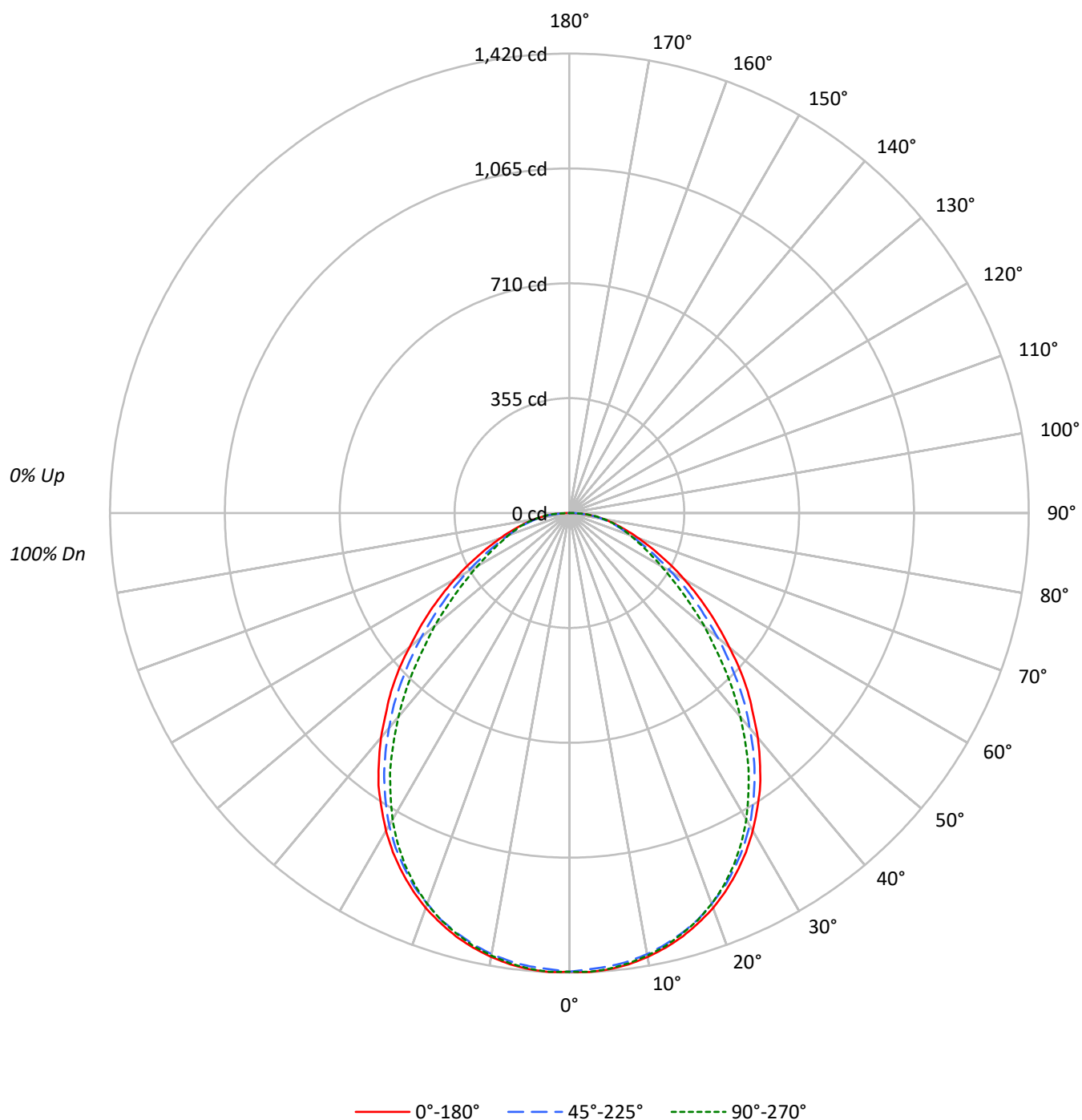
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3815	3815	3815
5°	3823	3799	3819
10°	3806	3782	3794
15°	3772	3743	3750
20°	3719	3679	3681
25°	3635	3590	3566
30°	3523	3462	3397
35°	3378	3280	3172
40°	3183	3046	2886
45°	2967	2788	2581
50°	2698	2501	2280
55°	2457	2218	1987
60°	2203	1954	1765
65°	1964	1741	1622
70°	1786	1587	1569
75°	1670	1545	1623
80°	1678	1598	1689
85°	1754	1636	1868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.0	4.2
10°-20°	380.0	11.9
20°-30°	557.2	17.5
30°-40°	621.9	19.5
40°-50°	563.0	17.7
50°-60°	425.1	13.4
60°-70°	277.9	8.7
70°-80°	163.2	5.1
80°-90°	59.7	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°	1071.2	33.7
0°-40°	1693.0	53.2
0°-60°	2681.2	84.3
0°-90°	3182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1418	1418	1418	1418	1418	
5°	1415	1412	1406	1415	1414	134
15°	1354	1352	1344	1351	1346	382
25°	1224	1220	1209	1207	1201	563
35°	1028	1020	999	976	966	641
45°	780	768	733	693	678	599
55°	524	512	473	435	424	468
65°	308	299	273	258	255	309
75°	161	156	149	152	156	172
85°	57	54	53	60	60	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1419.8	1417.6	1410.8	1419.8	1419.1
5°	1415.3	1412.3	1406.4	1414.6	1413.8
7.5°	1406.4	1403.4	1397.4	1404.9	1403.4
10°	1392.9	1389.9	1384.0	1392.2	1388.4
12.5°	1375.7	1372.7	1366.0	1373.5	1370.5
15°	1354.1	1351.8	1343.6	1351.1	1345.9
17.5°	1327.9	1324.2	1318.2	1322.7	1319.0
20°	1298.8	1294.3	1284.6	1289.1	1285.4
22.5°	1263.7	1257.7	1251.0	1251.0	1245.8
25°	1224.1	1219.6	1209.2	1206.9	1201.0
27.5°	1181.5	1177.8	1164.4	1160.6	1150.2
30°	1133.7	1128.5	1114.3	1102.4	1093.4
32.5°	1080.7	1077.0	1057.6	1041.9	1029.2
35°	1028.4	1019.5	998.6	976.2	965.7
37.5°	967.2	960.5	934.3	906.7	892.5
40°	906.0	897.7	867.1	836.5	821.6
42.5°	839.5	832.0	802.9	766.3	750.6
45°	779.7	767.8	732.7	693.1	678.2
47.5°	714.0	701.3	664.0	622.1	605.0
50°	644.5	636.3	597.5	557.2	544.5
52.5°	582.6	569.9	533.3	493.7	480.2
55°	523.6	511.6	472.8	435.4	423.5
57.5°	464.6	451.1	417.5	383.9	371.9
60°	409.3	395.8	363.0	335.3	327.9
62.5°	359.2	344.3	315.2	293.5	288.3
65°	308.5	298.7	273.4	257.7	254.7
67.5°	265.9	253.9	233.8	226.3	224.8
70°	227.0	218.8	201.7	199.4	199.4
72.5°	191.9	185.2	172.5	174.0	176.3
75°	160.6	156.1	148.6	151.6	156.1
77.5°	133.7	129.2	124.7	129.2	132.2
80°	108.3	103.8	103.1	106.8	109.0
82.5°	81.4	77.7	78.4	84.4	86.6
85°	56.8	54.5	53.0	59.7	60.5
87.5°	29.1	27.6	26.9	32.1	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)