

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: P290940

Luminaire Tested: **14GR-LD5-43-F125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290940
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-L92765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3419.0 lumens
Efficiency: N/A
Efficacy: 93.8 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

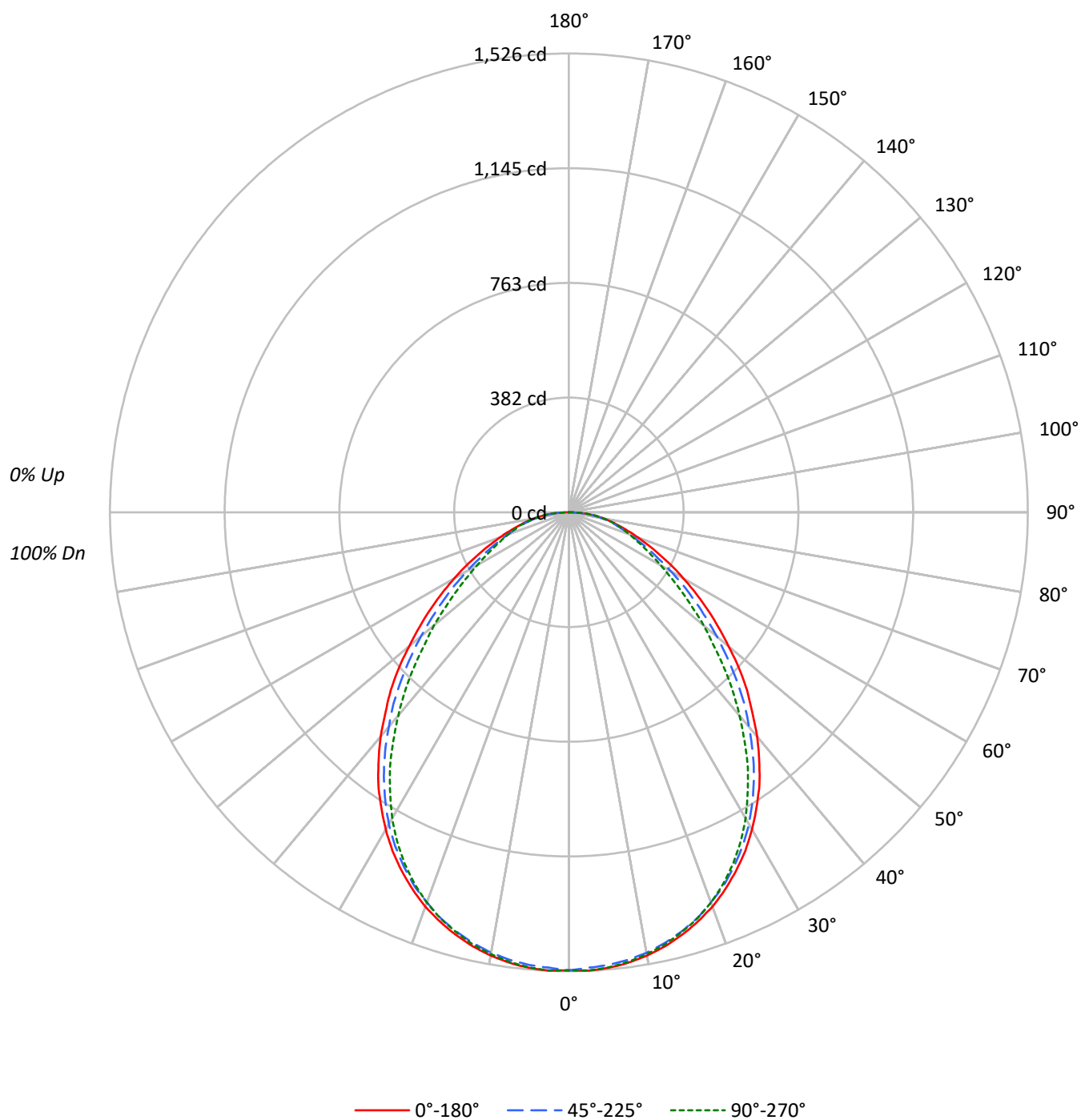
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4099	4099	4099
5°	4108	4082	4103
10°	4090	4063	4076
15°	4053	4022	4029
20°	3996	3953	3955
25°	3905	3858	3831
30°	3785	3720	3651
35°	3630	3525	3409
40°	3419	3273	3101
45°	3188	2996	2773
50°	2900	2688	2449
55°	2639	2383	2135
60°	2367	2099	1896
65°	2110	1870	1743
70°	1920	1705	1686
75°	1794	1660	1744
80°	1804	1715	1816
85°	1883	1760	2007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	4.2
10°-20°	408.3	11.9
20°-30°	598.7	17.5
30°-40°	668.2	19.5
40°-50°	604.9	17.7
50°-60°	456.8	13.4
60°-70°	298.6	8.7
70°-80°	175.4	5.1
80°-90°	64.2	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°	1151.0	33.7
0°-40°	1819.1	53.2
0°-60°	2880.8	84.3
0°-90°	3419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3419.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1521	1518	1511	1520	1519	144
15°	1455	1452	1444	1452	1446	410
25°	1315	1310	1299	1297	1290	605
35°	1105	1095	1073	1049	1038	688
45°	838	825	787	745	729	644
55°	563	550	508	468	455	503
65°	331	321	294	277	274	333
75°	172	168	160	163	168	185
85°	61	59	57	64	65	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1523.1	1523.1	1523.1	1523.1	1523.1
2.5°	1525.6	1523.1	1515.9	1525.6	1524.7
5°	1520.7	1517.5	1511.1	1519.9	1519.1
7.5°	1511.1	1507.9	1501.5	1509.5	1507.9
10°	1496.7	1493.5	1487.0	1495.9	1491.8
12.5°	1478.2	1475.0	1467.8	1475.8	1472.6
15°	1454.9	1452.5	1443.7	1451.7	1446.1
17.5°	1426.8	1422.8	1416.4	1421.2	1417.2
20°	1395.5	1390.7	1380.3	1385.1	1381.1
22.5°	1357.8	1351.4	1344.2	1344.2	1338.6
25°	1315.3	1310.5	1299.2	1296.8	1290.4
27.5°	1269.6	1265.5	1251.1	1247.1	1235.8
30°	1218.2	1212.6	1197.3	1184.5	1174.9
32.5°	1161.2	1157.2	1136.3	1119.5	1105.8
35°	1105.0	1095.4	1072.9	1048.9	1037.6
37.5°	1039.2	1032.0	1003.9	974.2	959.0
40°	973.4	964.6	931.7	898.8	882.7
42.5°	902.0	894.0	862.7	823.4	806.5
45°	837.8	825.0	787.3	744.7	728.7
47.5°	767.2	753.5	713.4	668.5	650.0
50°	692.6	683.7	642.0	598.7	585.0
52.5°	625.9	612.3	573.0	530.5	516.0
55°	562.6	549.7	508.0	467.9	455.0
57.5°	499.2	484.7	448.6	412.5	399.6
60°	439.8	425.3	390.0	360.3	352.3
62.5°	386.0	370.0	338.7	315.4	309.8
65°	331.4	321.0	293.7	276.9	273.7
67.5°	285.7	272.8	251.2	243.2	241.6
70°	244.0	235.1	216.7	214.3	214.3
72.5°	206.2	199.0	185.4	187.0	189.4
75°	172.5	167.7	159.7	162.9	167.7
77.5°	143.6	138.8	134.0	138.8	142.0
80°	116.4	111.5	110.7	114.8	117.2
82.5°	87.5	83.5	84.3	90.7	93.1
85°	61.0	58.6	57.0	64.2	65.0
87.5°	31.3	29.7	28.9	34.5	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)