

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: P290931

Luminaire Tested: **14GR-LD5-40-F125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290931
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-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: 3205.0 lumens
Efficiency: N/A
Efficacy: 95.5 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

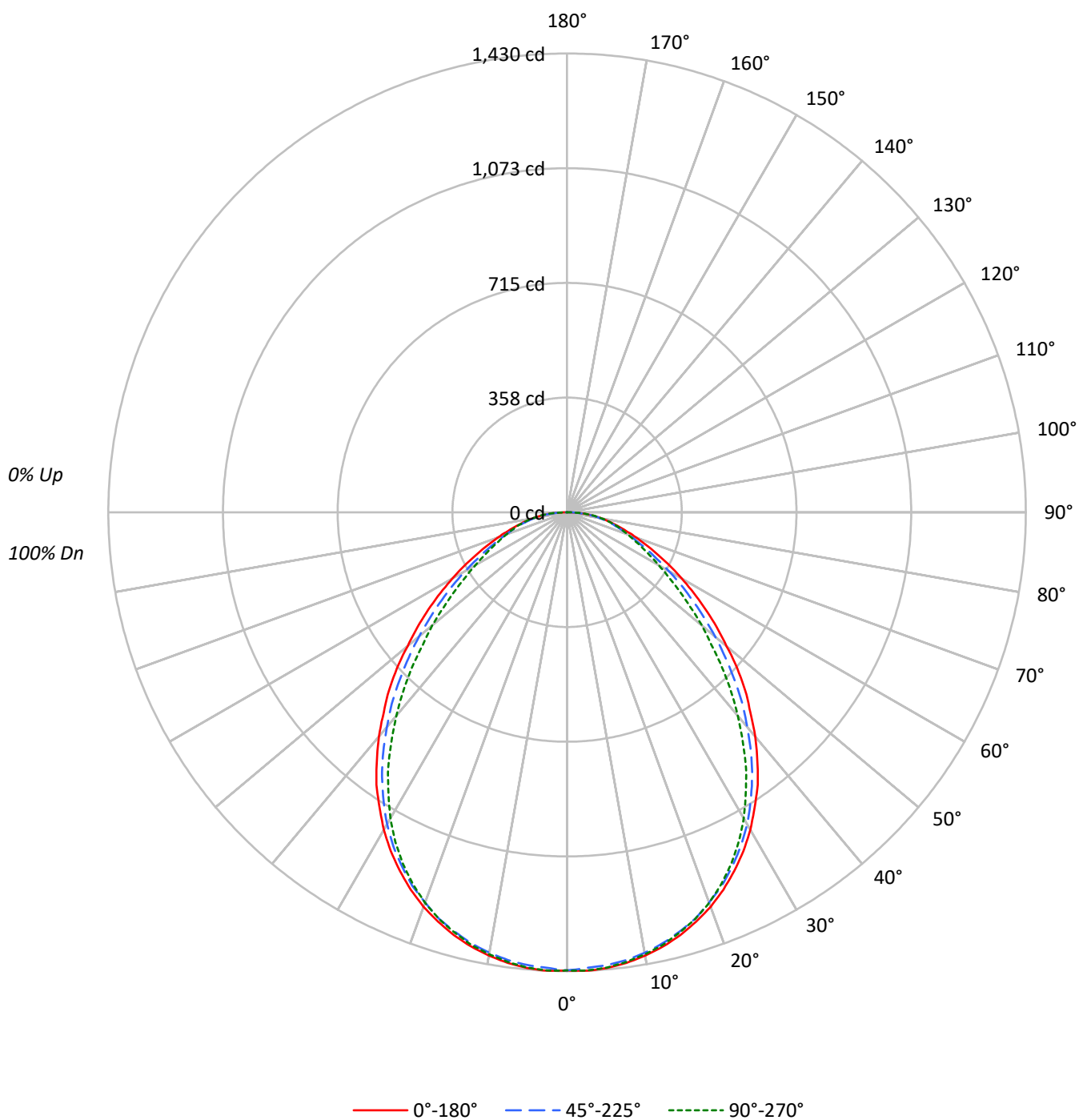
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290931

CATALOG NUMBER: 14GR-LD5-40-F125-UNV-L92765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P290931

CATALOG NUMBER: 14GR-LD5-40-F125-UNV-L92765-W2A1-U-2700K

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°	3842	3842	3842
5°	3851	3826	3847
10°	3834	3809	3821
15°	3800	3770	3777
20°	3746	3705	3708
25°	3661	3616	3592
30°	3548	3488	3422
35°	3403	3304	3195
40°	3205	3068	2907
45°	2989	2809	2600
50°	2718	2519	2296
55°	2474	2234	2001
60°	2218	1968	1777
65°	1978	1753	1633
70°	1799	1598	1581
75°	1681	1556	1634
80°	1691	1609	1702
85°	1766	1649	1880



TEST NUMBER: P290931

CATALOG NUMBER: 14GR-LD5-40-F125-UNV-L92765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	4.2
10°-20°	382.7	11.9
20°-30°	561.2	17.5
30°-40°	626.3	19.5
40°-50°	567.1	17.7
50°-60°	428.2	13.4
60°-70°	279.9	8.7
70°-80°	164.4	5.1
80°-90°	60.2	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°	1078.9	33.7
0°-40°	1705.3	53.2
0°-60°	2700.5	84.3
0°-90°	3205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1426	1422	1416	1425	1424	135
15°	1364	1362	1353	1361	1356	384
25°	1233	1228	1218	1216	1210	567
35°	1036	1027	1006	983	973	645
45°	785	773	738	698	683	603
55°	527	515	476	439	426	472
65°	311	301	275	260	256	312
75°	162	157	150	153	157	174
85°	57	55	53	60	61	61
90°	0	0	0	0	0	



TEST NUMBER: P290931

CATALOG NUMBER: 14GR-LD5-40-F125-UNV-L92765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1427.8	1427.8	1427.8	1427.8	1427.8
2.5°	1430.1	1427.8	1421.0	1430.1	1429.3
5°	1425.6	1422.5	1416.5	1424.8	1424.0
7.5°	1416.5	1413.5	1407.5	1415.0	1413.5
10°	1403.0	1400.0	1394.0	1402.2	1398.5
12.5°	1385.7	1382.7	1375.9	1383.4	1380.4
15°	1363.9	1361.6	1353.3	1360.9	1355.6
17.5°	1337.5	1333.8	1327.8	1332.3	1328.5
20°	1308.2	1303.7	1293.9	1298.4	1294.7
22.5°	1272.8	1266.8	1260.1	1260.1	1254.8
25°	1233.0	1228.5	1217.9	1215.7	1209.6
27.5°	1190.1	1186.3	1172.8	1169.0	1158.5
30°	1141.9	1136.7	1122.4	1110.3	1101.3
32.5°	1088.5	1084.8	1065.2	1049.4	1036.6
35°	1035.9	1026.8	1005.8	983.2	972.7
37.5°	974.2	967.4	941.1	913.3	899.0
40°	912.5	904.2	873.4	842.5	827.5
42.5°	845.6	838.0	808.7	771.8	756.0
45°	785.4	773.3	738.0	698.1	683.1
47.5°	719.2	706.4	668.8	626.6	609.3
50°	649.2	640.9	601.8	561.2	548.4
52.5°	586.8	574.0	537.1	497.3	483.7
55°	527.3	515.3	476.2	438.6	426.5
57.5°	467.9	454.4	420.5	386.7	374.6
60°	412.2	398.7	365.6	337.8	330.2
62.5°	361.8	346.8	317.5	295.6	290.4
65°	310.7	300.9	275.3	259.5	256.5
67.5°	267.8	255.8	235.5	227.9	226.4
70°	228.7	220.4	203.1	200.9	200.9
72.5°	193.3	186.6	173.8	175.3	177.5
75°	161.7	157.2	149.7	152.7	157.2
77.5°	134.7	130.1	125.6	130.1	133.2
80°	109.1	104.6	103.8	107.6	109.8
82.5°	82.0	78.2	79.0	85.0	87.3
85°	57.2	54.9	53.4	60.2	60.9
87.5°	29.3	27.8	27.1	32.3	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)