

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: P290925

Luminaire Tested: **14GR-LD5-36-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290925
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-LD5-36-F125-UNV-L92765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3228.0 lumens
Efficiency: N/A
Efficacy: 108.8 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

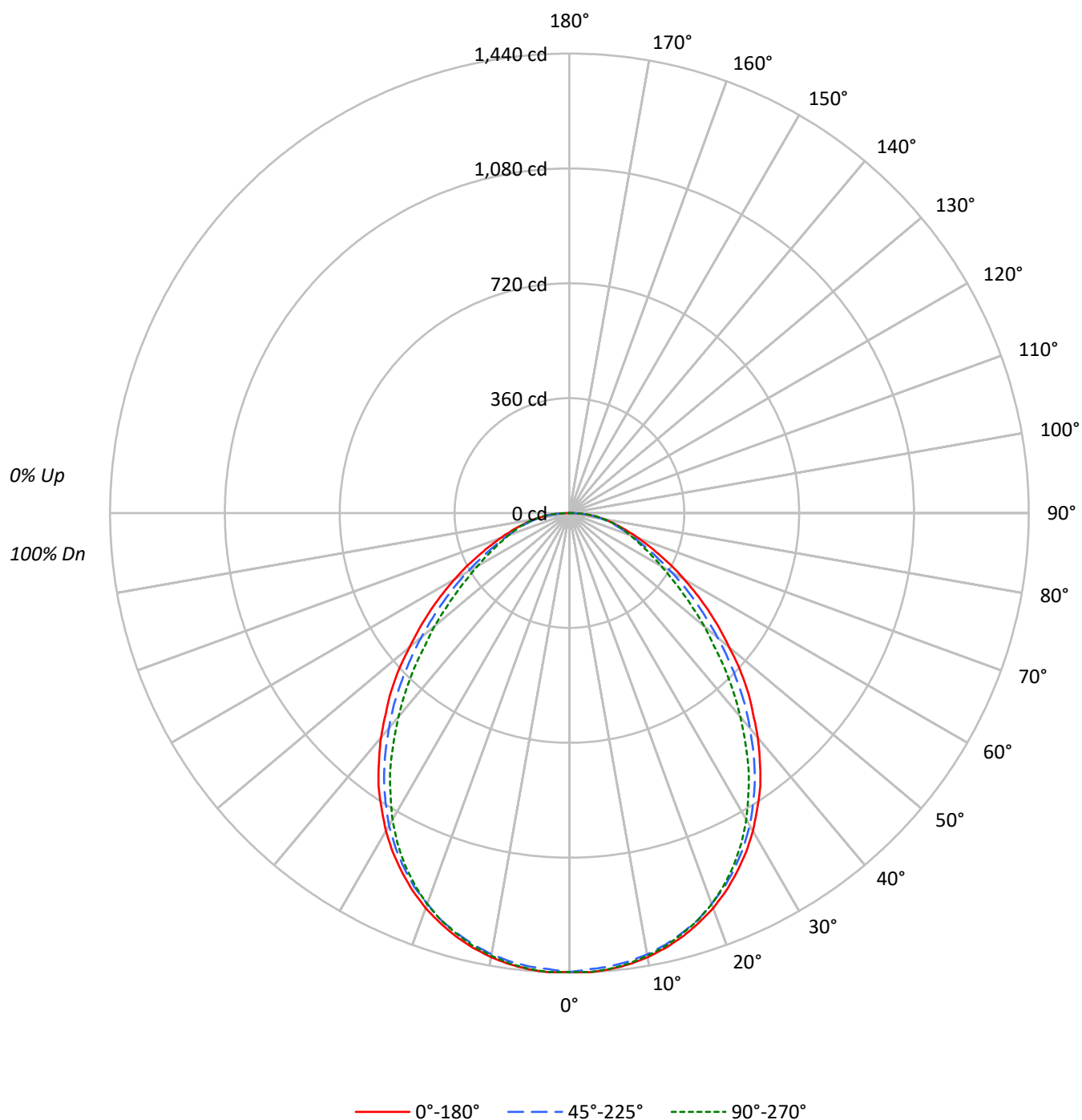
Input Watts (W): 29.667
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3870	3870	3870
5°	3878	3854	3874
10°	3861	3836	3849
15°	3827	3797	3804
20°	3773	3732	3734
25°	3687	3642	3617
30°	3574	3512	3447
35°	3427	3328	3218
40°	3229	3090	2928
45°	3010	2829	2618
50°	2737	2537	2312
55°	2492	2250	2016
60°	2235	1982	1790
65°	1992	1766	1645
70°	1812	1610	1592
75°	1694	1568	1647
80°	1703	1621	1714
85°	1778	1661	1896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	4.2
10°-20°	385.5	11.9
20°-30°	565.2	17.5
30°-40°	630.8	19.5
40°-50°	571.1	17.7
50°-60°	431.2	13.4
60°-70°	281.9	8.7
70°-80°	165.6	5.1
80°-90°	60.6	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°	1086.7	33.7
0°-40°	1717.5	53.2
0°-60°	2719.9	84.3
0°-90°	3228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1436	1433	1427	1435	1434	136
15°	1374	1371	1363	1371	1365	387
25°	1242	1237	1227	1224	1218	571
35°	1043	1034	1013	990	980	650
45°	791	779	743	703	688	608
55°	531	519	480	442	430	475
65°	313	303	277	261	258	314
75°	163	158	151	154	158	175
85°	58	55	54	61	61	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1438.1	1438.1	1438.1	1438.1	1438.1
2.5°	1440.3	1438.1	1431.2	1440.3	1439.6
5°	1435.8	1432.7	1426.7	1435.0	1434.3
7.5°	1426.7	1423.7	1417.6	1425.2	1423.7
10°	1413.1	1410.0	1404.0	1412.3	1408.5
12.5°	1395.6	1392.6	1385.8	1393.4	1390.3
15°	1373.7	1371.4	1363.0	1370.6	1365.3
17.5°	1347.1	1343.3	1337.3	1341.8	1338.0
20°	1317.6	1313.0	1303.2	1307.7	1303.9
22.5°	1282.0	1275.9	1269.1	1269.1	1263.8
25°	1241.8	1237.3	1226.7	1224.4	1218.3
27.5°	1198.6	1194.8	1181.2	1177.4	1166.8
30°	1150.1	1144.8	1130.4	1118.3	1109.2
32.5°	1096.3	1092.6	1072.9	1056.9	1044.1
35°	1043.3	1034.2	1013.0	990.3	979.7
37.5°	981.2	974.4	947.8	919.8	905.4
40°	919.1	910.7	879.7	848.6	833.4
42.5°	851.6	844.0	814.5	777.4	761.5
45°	791.0	778.9	743.3	703.1	688.0
47.5°	724.3	711.5	673.6	631.1	613.7
50°	653.9	645.5	606.1	565.2	552.3
52.5°	591.0	578.1	541.0	500.8	487.2
55°	531.1	519.0	479.6	441.7	429.6
57.5°	471.3	457.6	423.5	389.4	377.3
60°	415.2	401.6	368.2	340.2	332.6
62.5°	364.4	349.3	319.7	297.8	292.5
65°	312.9	303.1	277.3	261.4	258.4
67.5°	269.7	257.6	237.2	229.6	228.1
70°	230.3	222.0	204.6	202.3	202.3
72.5°	194.7	187.9	175.0	176.5	178.8
75°	162.9	158.4	150.8	153.8	158.4
77.5°	135.6	131.1	126.5	131.1	134.1
80°	109.9	105.3	104.6	108.3	110.6
82.5°	82.6	78.8	79.6	85.6	87.9
85°	57.6	55.3	53.8	60.6	61.4
87.5°	29.5	28.0	27.3	32.6	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)