

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: P290811

Luminaire Tested: **14GR-LD5-28-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290811
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-LD5-28-F125-UNV-L82765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2966.0 lumens
Efficiency: N/A
Efficacy: 130.2 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

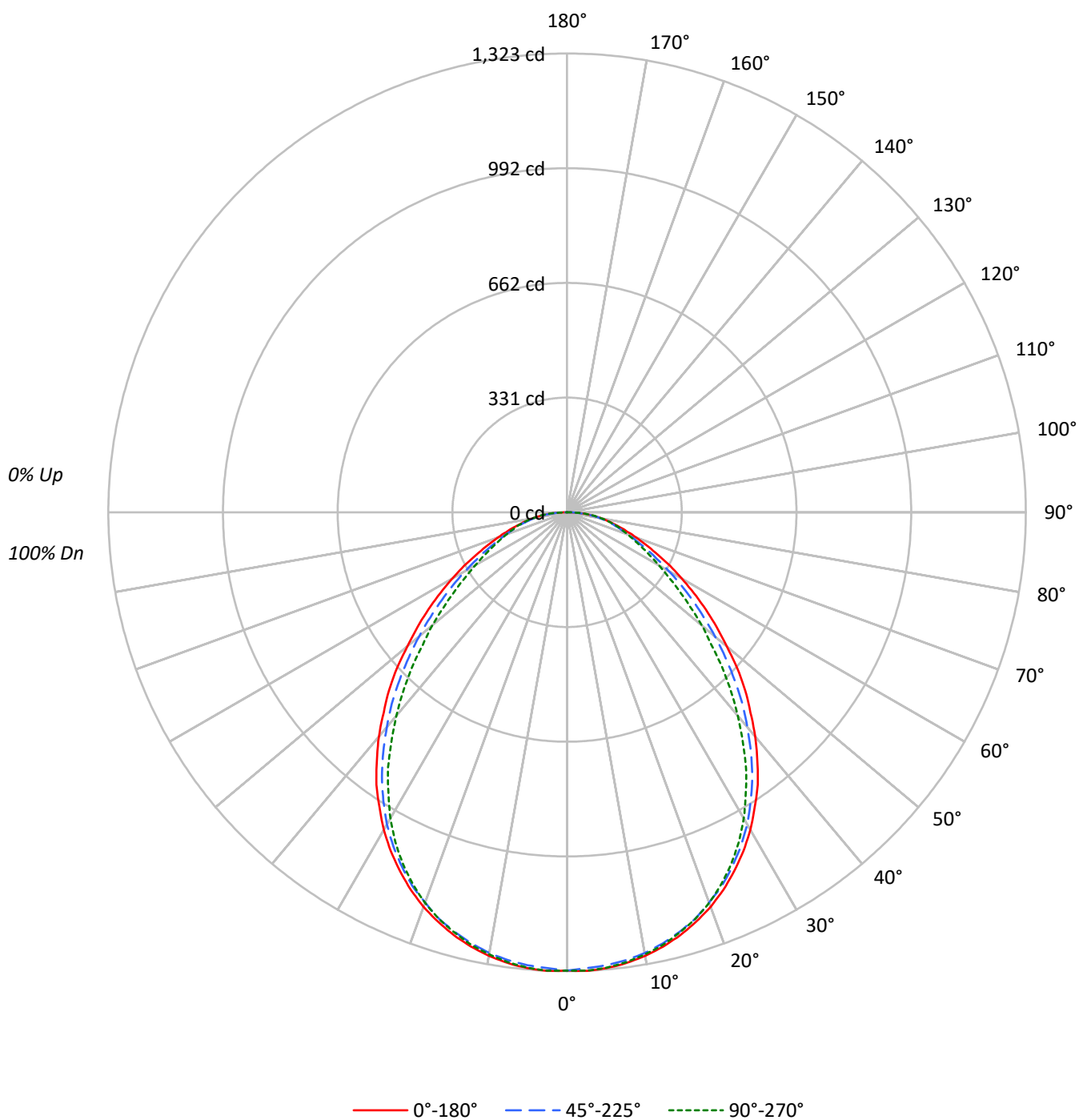
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3556	3556	3556
5°	3563	3541	3560
10°	3548	3525	3536
15°	3516	3489	3495
20°	3467	3429	3431
25°	3388	3347	3324
30°	3284	3228	3167
35°	3149	3058	2957
40°	2967	2839	2690
45°	2766	2599	2406
50°	2515	2331	2125
55°	2289	2068	1852
60°	2053	1821	1645
65°	1831	1622	1512
70°	1665	1479	1463
75°	1556	1440	1513
80°	1564	1489	1574
85°	1633	1525	1741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	4.2
10°-20°	354.2	11.9
20°-30°	519.3	17.5
30°-40°	579.6	19.5
40°-50°	524.8	17.7
50°-60°	396.2	13.4
60°-70°	259.0	8.7
70°-80°	152.1	5.1
80°-90°	55.7	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°	998.5	33.7
0°-40°	1578.1	53.2
0°-60°	2499.2	84.3
0°-90°	2966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1321	1321	1321	1321	1321	
5°	1319	1316	1311	1318	1318	125
15°	1262	1260	1252	1259	1254	356
25°	1141	1137	1127	1125	1119	525
35°	959	950	931	910	900	597
45°	727	716	683	646	632	558
55°	488	477	441	406	395	437
65°	288	278	255	240	237	288
75°	150	146	138	141	146	161
85°	53	51	49	56	56	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1321.3	1321.3	1321.3	1321.3	1321.3
2.5°	1323.4	1321.3	1315.1	1323.4	1322.7
5°	1319.2	1316.5	1310.9	1318.5	1317.9
7.5°	1310.9	1308.1	1302.5	1309.5	1308.1
10°	1298.4	1295.6	1290.0	1297.7	1294.2
12.5°	1282.3	1279.6	1273.3	1280.3	1277.5
15°	1262.2	1260.1	1252.4	1259.4	1254.5
17.5°	1237.8	1234.3	1228.7	1232.9	1229.4
20°	1210.6	1206.5	1197.4	1201.6	1198.1
22.5°	1177.9	1172.4	1166.1	1166.1	1161.2
25°	1141.0	1136.8	1127.1	1125.0	1119.4
27.5°	1101.3	1097.9	1085.3	1081.9	1072.1
30°	1056.8	1051.9	1038.7	1027.5	1019.2
32.5°	1007.4	1003.9	985.8	971.2	959.3
35°	958.6	950.3	930.8	909.9	900.2
37.5°	901.5	895.3	870.9	845.2	831.9
40°	844.5	836.8	808.3	779.7	765.8
42.5°	782.5	775.5	748.4	714.3	699.7
45°	726.8	715.7	682.9	646.0	632.1
47.5°	665.5	653.7	618.9	579.9	563.9
50°	600.8	593.1	556.9	519.3	507.5
52.5°	543.0	531.2	497.1	460.2	447.6
55°	488.0	476.9	440.7	405.9	394.7
57.5°	433.0	420.5	389.2	357.8	346.7
60°	381.5	369.0	338.3	312.6	305.6
62.5°	334.9	320.9	293.8	273.6	268.7
65°	287.5	278.5	254.8	240.2	237.4
67.5°	247.8	236.7	217.9	210.9	209.5
70°	211.6	204.0	188.0	185.9	185.9
72.5°	178.9	172.7	160.8	162.2	164.3
75°	149.7	145.5	138.5	141.3	145.5
77.5°	124.6	120.4	116.3	120.4	123.2
80°	100.9	96.8	96.1	99.6	101.6
82.5°	75.9	72.4	73.1	78.7	80.8
85°	52.9	50.8	49.4	55.7	56.4
87.5°	27.2	25.8	25.1	29.9	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)