

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: P290812

Luminaire Tested: **14GR-LD5-28-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290812
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2996.0 lumens
Efficiency: N/A
Efficacy: 131.0 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

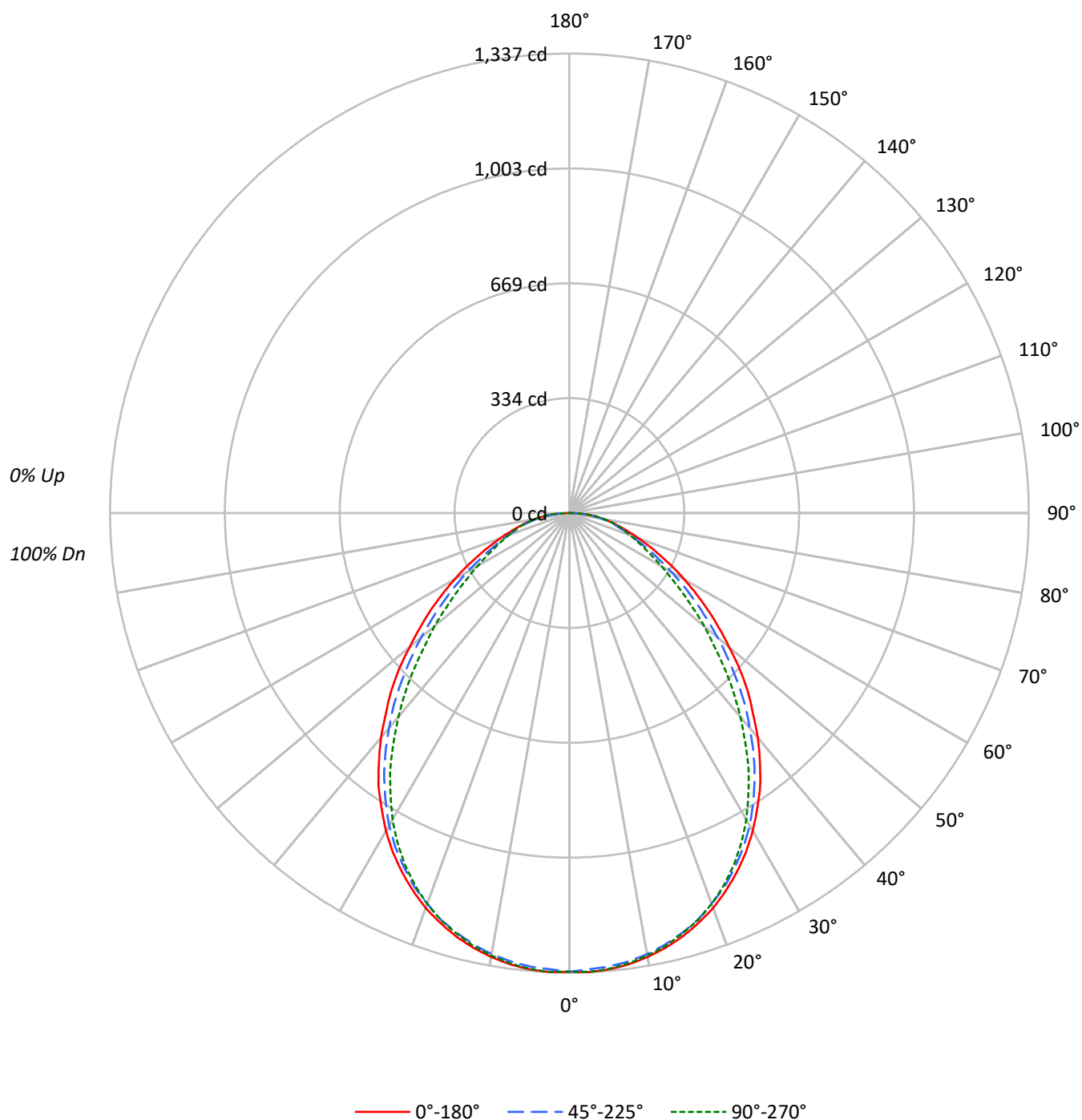
Input Watts (W): 22.878
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	88
2	101	93	87	81	98	91	85	80		88	83	78		84	80	77		81	78	75
3	92	83	75	69	90	81	74	68		78	72	67		75	70	66		73	69	65
4	85	74	66	59	83	73	65	59		70	64	58		68	62	58		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	60	52	46	71	60	52	46		58	51	45		56	50	45		55	49	45
7	68	55	47	41	66	54	47	41		53	46	41		51	45	40		50	44	40
8	64	51	43	37	62	50	42	37		49	42	37		47	41	36		46	41	36
9	60	47	39	34	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	36	31	55	43	35	31		42	35	30		41	35	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3592	3592	3592
5°	3600	3577	3596
10°	3584	3561	3572
15°	3552	3524	3530
20°	3502	3464	3466
25°	3422	3380	3358
30°	3317	3260	3199
35°	3181	3089	2987
40°	2996	2868	2717
45°	2794	2625	2430
50°	2541	2355	2146
55°	2313	2088	1871
60°	2074	1840	1661
65°	1849	1639	1527
70°	1682	1494	1478
75°	1572	1455	1528
80°	1581	1503	1592
85°	1649	1541	1760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	4.2
10°-20°	357.8	11.9
20°-30°	524.6	17.5
30°-40°	585.5	19.5
40°-50°	530.1	17.7
50°-60°	400.3	13.4
60°-70°	261.7	8.7
70°-80°	153.7	5.1
80°-90°	56.2	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°	1008.6	33.7
0°-40°	1594.1	53.2
0°-60°	2524.4	84.3
0°-90°	2996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2996.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1335	1335	1335	1335	1335	
5°	1333	1330	1324	1332	1331	127
15°	1275	1273	1265	1272	1267	359
25°	1153	1148	1138	1136	1131	530
35°	968	960	940	919	909	603
45°	734	723	690	653	638	564
55°	493	482	445	410	399	441
65°	290	281	257	243	240	291
75°	151	147	140	143	147	162
85°	53	51	50	56	57	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1334.7	1334.7	1334.7	1334.7	1334.7
2.5°	1336.8	1334.7	1328.4	1336.8	1336.1
5°	1332.6	1329.8	1324.2	1331.9	1331.2
7.5°	1324.2	1321.3	1315.7	1322.7	1321.3
10°	1311.5	1308.7	1303.1	1310.8	1307.3
12.5°	1295.3	1292.5	1286.2	1293.2	1290.4
15°	1274.9	1272.8	1265.1	1272.1	1267.2
17.5°	1250.3	1246.8	1241.2	1245.4	1241.9
20°	1222.9	1218.7	1209.5	1213.7	1210.2
22.5°	1189.8	1184.2	1177.9	1177.9	1173.0
25°	1152.6	1148.3	1138.5	1136.4	1130.8
27.5°	1112.5	1109.0	1096.3	1092.8	1082.9
30°	1067.5	1062.6	1049.2	1037.9	1029.5
32.5°	1017.5	1014.0	995.8	981.0	969.0
35°	968.3	959.9	940.2	919.1	909.3
37.5°	910.7	904.3	879.7	853.7	840.3
40°	853.0	845.3	816.4	787.6	773.5
42.5°	790.4	783.4	756.0	721.5	706.7
45°	734.2	722.9	689.9	652.6	638.5
47.5°	672.3	660.3	625.2	585.8	569.6
50°	606.9	599.1	562.6	524.6	512.6
52.5°	548.5	536.6	502.1	464.8	452.2
55°	493.0	481.7	445.1	410.0	398.7
57.5°	437.4	424.7	393.1	361.5	350.2
60°	385.4	372.7	341.8	315.7	308.7
62.5°	338.2	324.2	296.8	276.4	271.4
65°	290.4	281.3	257.4	242.6	239.8
67.5°	250.3	239.1	220.1	213.1	211.7
70°	213.8	206.0	189.9	187.8	187.8
72.5°	180.7	174.4	162.4	163.8	166.0
75°	151.2	147.0	139.9	142.8	147.0
77.5°	125.9	121.7	117.4	121.7	124.5
80°	102.0	97.7	97.0	100.6	102.7
82.5°	76.7	73.1	73.8	79.5	81.6
85°	53.4	51.3	49.9	56.3	57.0
87.5°	27.4	26.0	25.3	30.2	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)