

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: P290923

Luminaire Tested: **14GR-LD5-36-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290923
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2978.0 lumens
Efficiency: N/A
Efficacy: 102.6 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

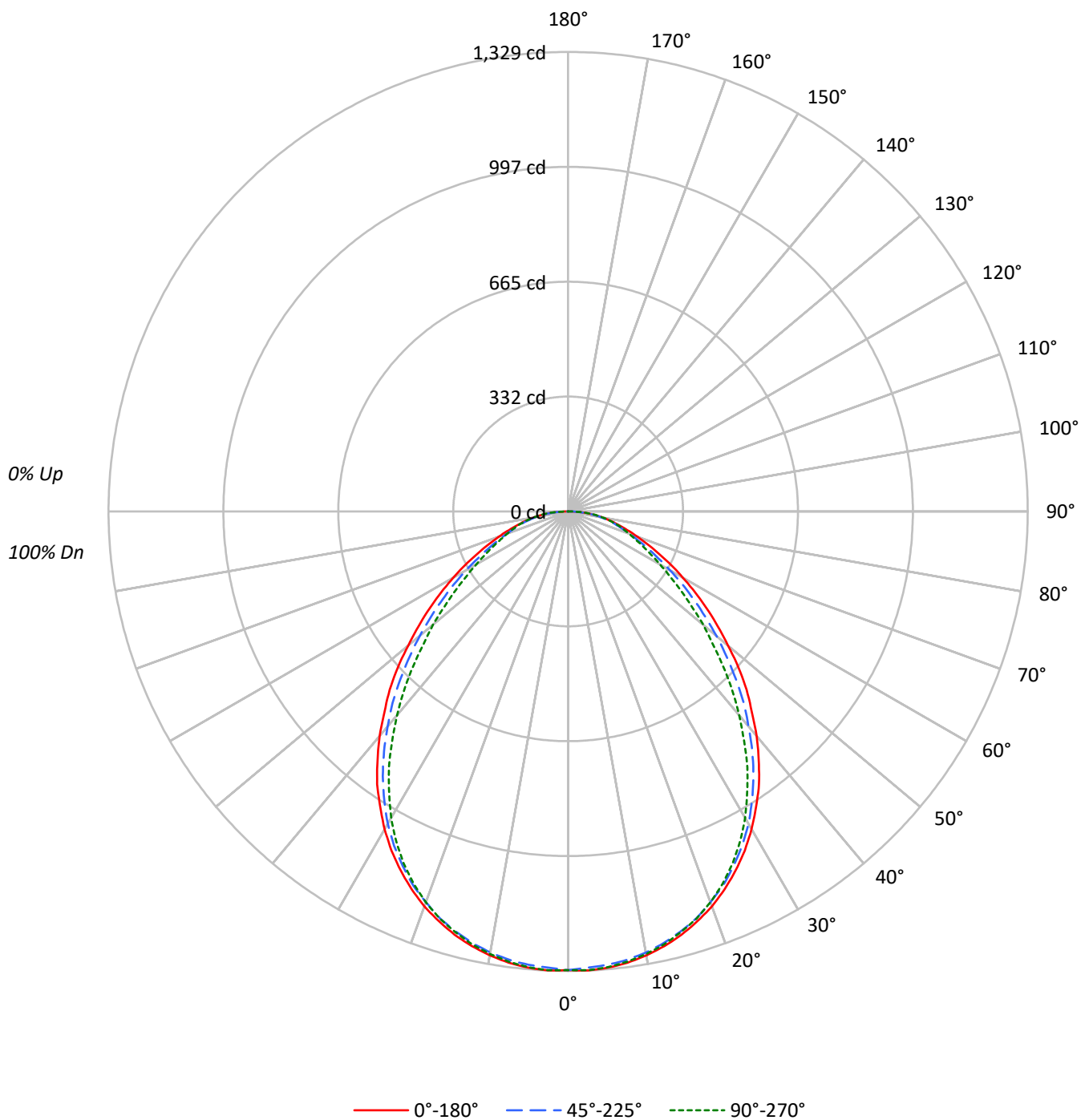
Input Watts (W): 29.016
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3570	3570	3570
5°	3578	3555	3574
10°	3562	3539	3551
15°	3531	3503	3509
20°	3481	3443	3445
25°	3401	3360	3337
30°	3297	3241	3180
35°	3162	3070	2969
40°	2979	2851	2701
45°	2777	2610	2415
50°	2525	2341	2133
55°	2299	2076	1859
60°	2061	1828	1652
65°	1838	1629	1518
70°	1672	1485	1468
75°	1563	1446	1519
80°	1571	1495	1582
85°	1639	1531	1748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	4.2
10°-20°	355.6	11.9
20°-30°	521.4	17.5
30°-40°	582.0	19.5
40°-50°	526.9	17.7
50°-60°	397.8	13.4
60°-70°	260.1	8.7
70°-80°	152.7	5.1
80°-90°	55.9	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°	1002.5	33.7
0°-40°	1584.5	53.2
0°-60°	2509.3	84.3
0°-90°	2978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2978.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1325	1322	1316	1324	1323	126
15°	1267	1265	1258	1264	1260	357
25°	1146	1141	1132	1130	1124	527
35°	962	954	934	914	904	599
45°	730	719	686	649	635	561
55°	490	479	442	408	396	438
65°	289	280	256	241	238	290
75°	150	146	139	142	146	161
85°	53	51	50	56	57	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1326.7	1326.7	1326.7	1326.7	1326.7
2.5°	1328.8	1326.7	1320.4	1328.8	1328.1
5°	1324.6	1321.8	1316.2	1323.9	1323.2
7.5°	1316.2	1313.4	1307.8	1314.8	1313.4
10°	1303.6	1300.8	1295.2	1302.9	1299.4
12.5°	1287.5	1284.7	1278.4	1285.4	1282.6
15°	1267.3	1265.2	1257.5	1264.5	1259.6
17.5°	1242.8	1239.3	1233.7	1237.9	1234.4
20°	1215.5	1211.3	1202.3	1206.5	1203.0
22.5°	1182.7	1177.1	1170.8	1170.8	1165.9
25°	1145.6	1141.4	1131.7	1129.6	1124.0
27.5°	1105.8	1102.3	1089.7	1086.2	1076.4
30°	1061.1	1056.2	1042.9	1031.7	1023.3
32.5°	1011.4	1007.9	989.8	975.1	963.2
35°	962.5	954.1	934.5	913.6	903.8
37.5°	905.2	898.9	874.4	848.6	835.3
40°	847.9	840.2	811.5	782.9	768.9
42.5°	785.7	778.7	751.4	717.2	702.5
45°	729.7	718.6	685.7	648.7	634.7
47.5°	668.2	656.4	621.4	582.3	566.2
50°	603.2	595.5	559.2	521.4	509.6
52.5°	545.2	533.3	499.1	462.0	449.4
55°	490.0	478.8	442.5	407.5	396.3
57.5°	434.8	422.2	390.7	359.3	348.1
60°	383.0	370.5	339.7	313.8	306.9
62.5°	336.2	322.2	295.0	274.7	269.8
65°	288.7	279.6	255.8	241.2	238.4
67.5°	248.8	237.7	218.8	211.8	210.4
70°	212.5	204.8	188.7	186.6	186.6
72.5°	179.6	173.3	161.5	162.9	165.0
75°	150.3	146.1	139.1	141.9	146.1
77.5°	125.1	120.9	116.7	120.9	123.7
80°	101.4	97.2	96.5	100.0	102.1
82.5°	76.2	72.7	73.4	79.0	81.1
85°	53.1	51.0	49.6	55.9	56.6
87.5°	27.3	25.9	25.2	30.1	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)