

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: P290797

Luminaire Tested: **14GR-LD5-24-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290797
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-LD5-24-F125-UNV-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2214.0 lumens
Efficiency: N/A
Efficacy: 121.5 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

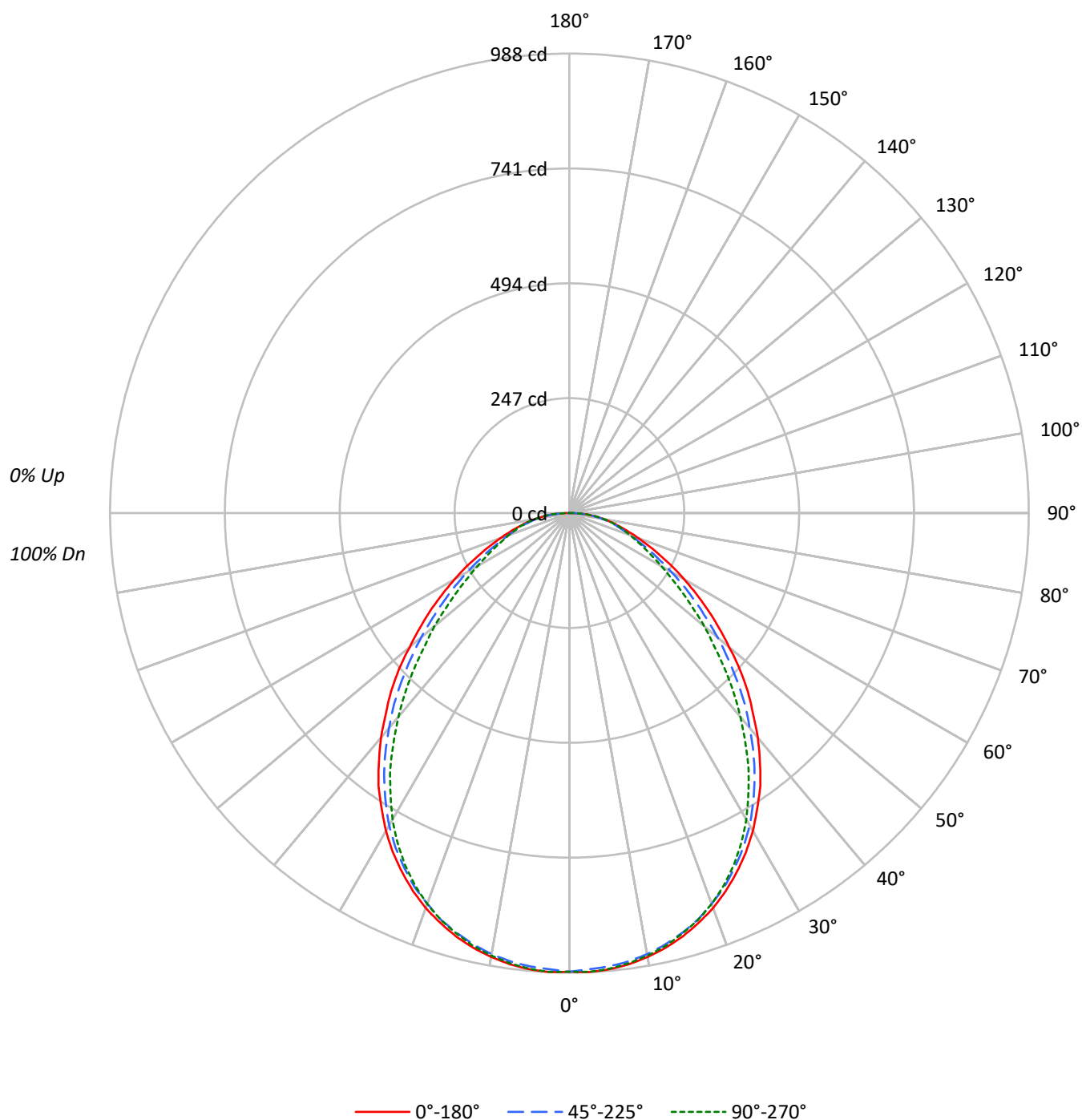
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2654	2654	2654
5°	2660	2643	2657
10°	2648	2631	2640
15°	2625	2605	2609
20°	2588	2560	2561
25°	2529	2498	2481
30°	2451	2409	2364
35°	2351	2282	2207
40°	2214	2119	2008
45°	2065	1940	1796
50°	1878	1740	1586
55°	1709	1543	1382
60°	1533	1359	1228
65°	1366	1211	1128
70°	1243	1104	1092
75°	1161	1075	1129
80°	1168	1111	1176
85°	1220	1139	1300



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	4.2
10°-20°	264.4	11.9
20°-30°	387.7	17.5
30°-40°	432.7	19.5
40°-50°	391.7	17.7
50°-60°	295.8	13.4
60°-70°	193.4	8.7
70°-80°	113.6	5.1
80°-90°	41.6	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°	745.3	33.7
0°-40°	1178.0	53.2
0°-60°	1865.5	84.3
0°-90°	2214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2214.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	985	983	978	984	984	93
15°	942	941	935	940	936	265
25°	852	849	841	840	836	392
35°	716	709	695	679	672	446
45°	542	534	510	482	472	417
55°	364	356	329	303	295	326
65°	215	208	190	179	177	215
75°	112	109	103	106	109	120
85°	40	38	37	42	42	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	986.3	986.3	986.3	986.3	986.3
2.5°	987.9	986.3	981.6	987.9	987.4
5°	984.8	982.7	978.5	984.2	983.7
7.5°	978.5	976.4	972.3	977.5	976.4
10°	969.2	967.1	962.9	968.7	966.1
12.5°	957.2	955.1	950.5	955.7	953.6
15°	942.2	940.6	934.9	940.1	936.4
17.5°	924.0	921.4	917.2	920.3	917.7
20°	903.7	900.6	893.8	896.9	894.3
22.5°	879.3	875.1	870.4	870.4	866.8
25°	851.7	848.6	841.3	839.8	835.6
27.5°	822.1	819.5	810.2	807.6	800.3
30°	788.9	785.2	775.3	767.0	760.8
32.5°	752.0	749.4	735.8	724.9	716.1
35°	715.6	709.3	694.8	679.2	671.9
37.5°	673.0	668.3	650.1	630.9	621.0
40°	630.4	624.6	603.3	582.0	571.6
42.5°	584.1	578.9	558.6	533.2	522.3
45°	542.5	534.2	509.8	482.2	471.9
47.5°	496.8	488.0	462.0	432.9	420.9
50°	448.5	442.8	415.7	387.7	378.8
52.5°	405.3	396.5	371.0	343.5	334.1
55°	364.3	356.0	328.9	303.0	294.6
57.5°	323.2	313.9	290.5	267.1	258.8
60°	284.8	275.4	252.6	233.3	228.1
62.5°	250.0	239.6	219.3	204.2	200.6
65°	214.6	207.9	190.2	179.3	177.2
67.5°	185.0	176.7	162.7	157.5	156.4
70°	158.0	152.3	140.3	138.8	138.8
72.5°	133.6	128.9	120.0	121.1	122.6
75°	111.7	108.6	103.4	105.5	108.6
77.5°	93.0	89.9	86.8	89.9	92.0
80°	75.4	72.2	71.7	74.3	75.9
82.5°	56.6	54.0	54.6	58.7	60.3
85°	39.5	37.9	36.9	41.6	42.1
87.5°	20.3	19.2	18.7	22.3	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)