

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: P290858

Luminaire Tested: **14GR-LD5-24-F125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290858
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-L93050-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: 2215.0 lumens
Efficiency: N/A
Efficacy: 118.5 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

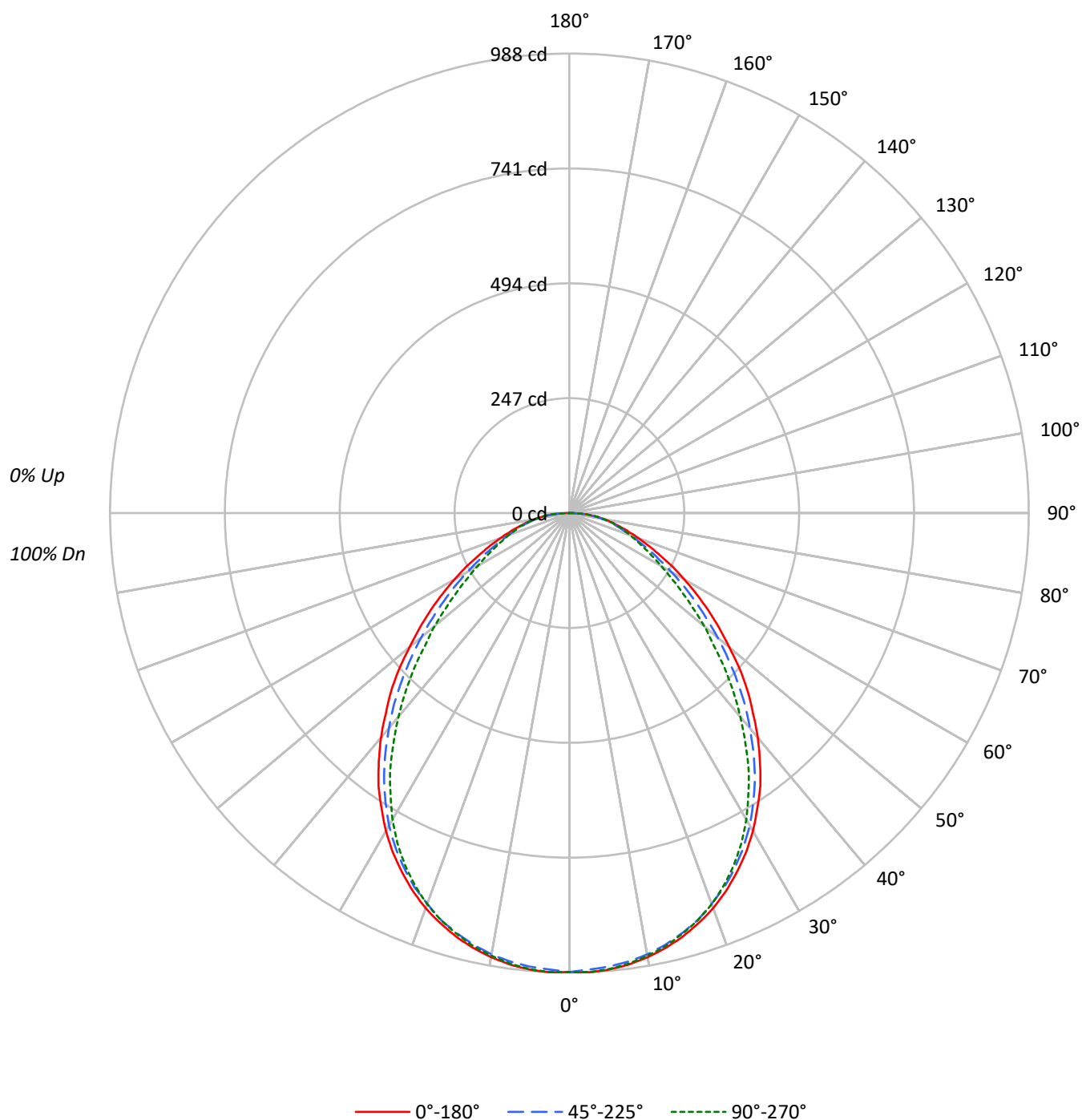
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2655	2655	2655
5°	2661	2645	2659
10°	2649	2632	2641
15°	2626	2606	2610
20°	2589	2561	2562
25°	2530	2499	2482
30°	2452	2410	2365
35°	2352	2283	2208
40°	2215	2120	2009
45°	2066	1941	1797
50°	1878	1741	1587
55°	1710	1544	1383
60°	1533	1360	1228
65°	1367	1212	1129
70°	1243	1105	1092
75°	1162	1076	1130
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°	264.5	11.9
20°-30°	387.8	17.5
30°-40°	432.9	19.5
40°-50°	391.9	17.7
50°-60°	295.9	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°	745.7	33.7
0°-40°	1178.5	53.2
0°-60°	1866.4	84.3
0°-90°	2215.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2215.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	987	987	987	987	987	
5°	985	983	979	985	984	94
15°	943	941	935	940	937	266
25°	852	849	842	840	836	392
35°	716	710	695	680	672	446
45°	543	534	510	482	472	417
55°	364	356	329	303	295	326
65°	215	208	190	179	177	215
75°	112	109	104	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°	986.8	986.8	986.8	986.8	986.8
2.5°	988.3	986.8	982.1	988.3	987.8
5°	985.2	983.1	979.0	984.7	984.2
7.5°	979.0	976.9	972.7	977.9	976.9
10°	969.6	967.5	963.4	969.1	966.5
12.5°	957.7	955.6	950.9	956.1	954.0
15°	942.6	941.0	935.3	940.5	936.9
17.5°	924.4	921.8	917.6	920.7	918.1
20°	904.1	901.0	894.2	897.3	894.7
22.5°	879.7	875.5	870.8	870.8	867.2
25°	852.1	849.0	841.7	840.2	836.0
27.5°	822.5	819.9	810.5	807.9	800.6
30°	789.2	785.6	775.7	767.4	761.1
32.5°	752.3	749.7	736.2	725.3	716.4
35°	715.9	709.7	695.1	679.5	672.2
37.5°	673.3	668.6	650.4	631.2	621.3
40°	630.6	624.9	603.6	582.3	571.9
42.5°	584.4	579.2	558.9	533.4	522.5
45°	542.8	534.5	510.0	482.5	472.1
47.5°	497.0	488.2	462.2	433.1	421.1
50°	448.7	443.0	415.9	387.8	379.0
52.5°	405.5	396.7	371.2	343.7	334.3
55°	364.4	356.1	329.1	303.1	294.8
57.5°	323.4	314.0	290.6	267.2	258.9
60°	284.9	275.5	252.7	233.4	228.2
62.5°	250.1	239.7	219.4	204.3	200.7
65°	214.7	208.0	190.3	179.4	177.3
67.5°	185.1	176.8	162.7	157.5	156.5
70°	158.0	152.3	140.4	138.8	138.8
72.5°	133.6	128.9	120.1	121.1	122.7
75°	111.8	108.7	103.5	105.5	108.7
77.5°	93.1	89.9	86.8	89.9	92.0
80°	75.4	72.3	71.7	74.3	75.9
82.5°	56.7	54.1	54.6	58.7	60.3
85°	39.5	38.0	36.9	41.6	42.1
87.5°	20.3	19.2	18.7	22.4	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)