

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: P290903

Luminaire Tested: **14GR-LD5-24-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290903
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-L92765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2290.0 lumens
Efficiency: N/A
Efficacy: 120.1 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

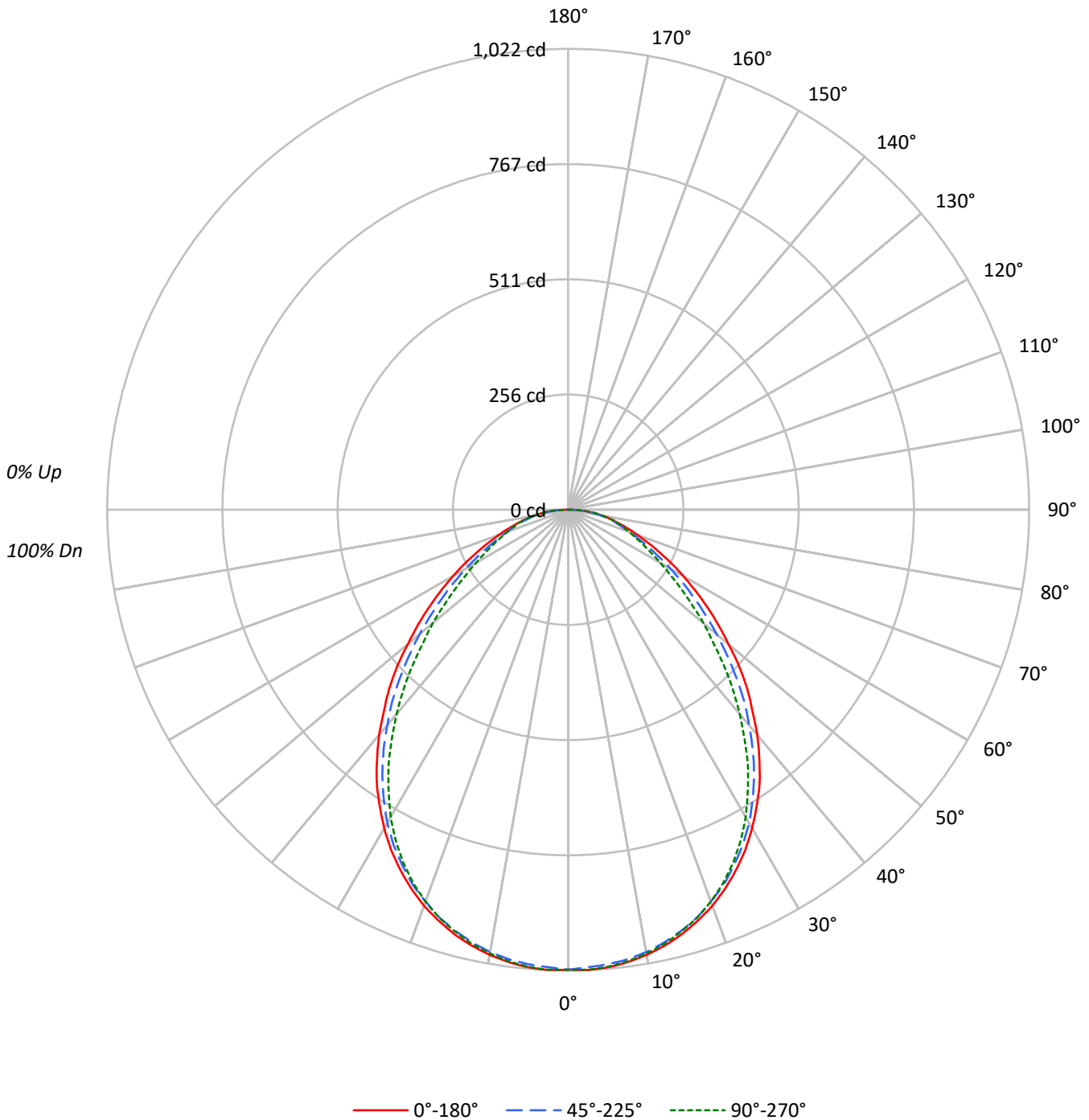
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290903

CATALOG NUMBER: 14GR-LD5-24-F125-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P290903

CATALOG NUMBER: 14GR-LD5-24-F125-UNV-L92765-W2A1-U-6500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	88	85
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60	54	50	48
6	73	60	52	46	71	60	52	46	58	51	45		56	50	45		55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41		51	45	40		50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2745	2745	2745
5°	2752	2734	2749
10°	2739	2722	2730
15°	2715	2694	2698
20°	2677	2647	2649
25°	2616	2584	2566
30°	2535	2492	2445
35°	2431	2361	2283
40°	2290	2192	2077
45°	2136	2007	1858
50°	1942	1800	1640
55°	1768	1596	1430
60°	1586	1406	1270
65°	1414	1252	1167
70°	1286	1142	1129
75°	1202	1112	1168
80°	1207	1150	1216
85°	1263	1179	1343



TEST NUMBER: P290903

CATALOG NUMBER: 14GR-LD5-24-F125-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	4.2
10°-20°	273.5	11.9
20°-30°	401.0	17.5
30°-40°	447.5	19.5
40°-50°	405.2	17.7
50°-60°	305.9	13.4
60°-70°	200.0	8.7
70°-80°	117.5	5.1
80°-90°	43.0	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°	770.9	33.7
0°-40°	1218.4	53.2
0°-60°	1929.6	84.3
0°-90°	2290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2290.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1020	1020	1020	1020	1020	
5°	1019	1016	1012	1018	1018	97
15°	974	973	967	972	969	275
25°	881	878	870	869	864	405
35°	740	734	719	702	695	461
45°	561	553	527	499	488	431
55°	377	368	340	313	305	337
65°	222	215	197	185	183	223
75°	116	112	107	109	112	124
85°	41	39	38	43	44	43
90°	0	0	0	0	0	



TEST NUMBER: P290903

CATALOG NUMBER: 14GR-LD5-24-F125-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1020.2	1020.2	1020.2	1020.2	1020.2
2.5°	1021.8	1020.2	1015.3	1021.8	1021.3
5°	1018.6	1016.4	1012.1	1018.0	1017.5
7.5°	1012.1	1010.0	1005.7	1011.0	1010.0
10°	1002.4	1000.3	996.0	1001.9	999.2
12.5°	990.1	987.9	983.1	988.5	986.3
15°	974.5	972.9	967.0	972.3	968.6
17.5°	955.7	953.0	948.7	951.9	949.2
20°	934.7	931.5	924.5	927.7	925.0
22.5°	909.5	905.2	900.3	900.3	896.6
25°	881.0	877.7	870.2	868.6	864.3
27.5°	850.3	847.6	838.0	835.3	827.8
30°	815.9	812.2	802.0	793.4	786.9
32.5°	777.8	775.1	761.1	749.8	740.7
35°	740.1	733.7	718.6	702.5	695.0
37.5°	696.1	691.2	672.4	652.5	642.3
40°	652.0	646.1	624.0	602.0	591.3
42.5°	604.2	598.8	577.8	551.5	540.2
45°	561.2	552.6	527.3	498.8	488.1
47.5°	513.9	504.7	477.8	447.7	435.4
50°	463.9	458.0	430.0	401.0	391.8
52.5°	419.3	410.1	383.8	355.3	345.6
55°	376.8	368.2	340.2	313.4	304.8
57.5°	334.3	324.7	300.5	276.3	267.7
60°	294.6	284.9	261.2	241.3	236.0
62.5°	258.5	247.8	226.8	211.2	207.5
65°	222.0	215.0	196.7	185.4	183.3
67.5°	191.4	182.8	168.2	162.9	161.8
70°	163.4	157.5	145.1	143.5	143.5
72.5°	138.1	133.3	124.2	125.2	126.9
75°	115.6	112.3	107.0	109.1	112.3
77.5°	96.2	93.0	89.8	93.0	95.1
80°	77.9	74.7	74.2	76.9	78.5
82.5°	58.6	55.9	56.4	60.7	62.4
85°	40.9	39.2	38.2	43.0	43.5
87.5°	21.0	19.9	19.4	23.1	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)