

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: P290900

Luminaire Tested: **14GR-LD5-24-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290900
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2231.0 lumens
Efficiency: N/A
Efficacy: 119.4 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

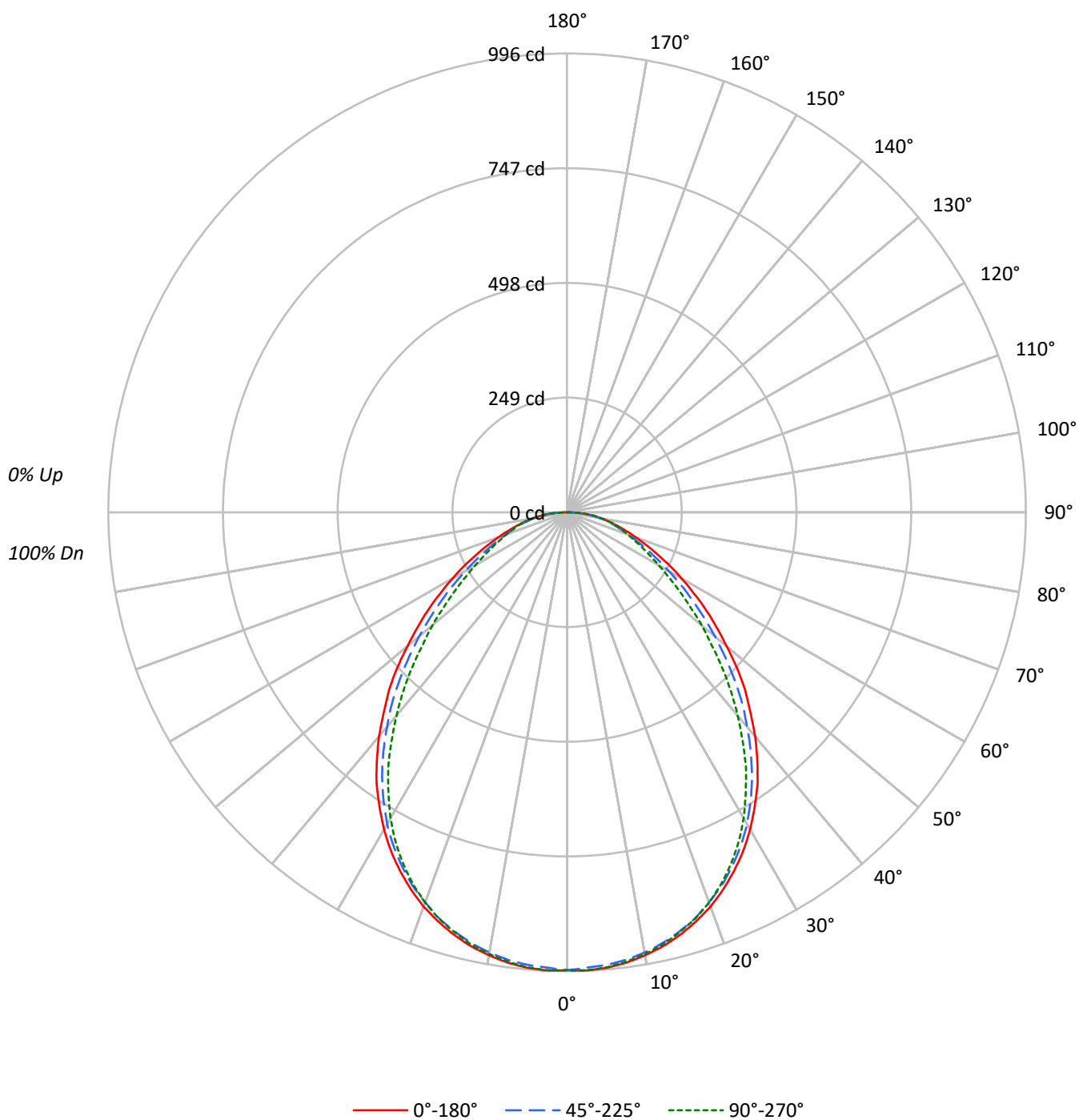
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2675	2675	2675
5°	2680	2663	2678
10°	2669	2651	2660
15°	2645	2625	2629
20°	2608	2579	2581
25°	2548	2517	2500
30°	2470	2428	2382
35°	2369	2300	2224
40°	2231	2136	2023
45°	2081	1955	1810
50°	1892	1754	1598
55°	1722	1555	1393
60°	1545	1370	1237
65°	1377	1221	1137
70°	1253	1113	1100
75°	1171	1083	1137
80°	1176	1120	1185
85°	1229	1149	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.0	4.2
10°-20°	266.4	11.9
20°-30°	390.6	17.5
30°-40°	436.0	19.5
40°-50°	394.7	17.7
50°-60°	298.0	13.4
60°-70°	194.8	8.7
70°-80°	114.4	5.1
80°-90°	41.9	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°	751.0	33.7
0°-40°	1187.0	53.2
0°-60°	1879.8	84.3
0°-90°	2231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2231.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	994	994	994	994	994	
5°	992	990	986	992	991	94
15°	949	948	942	947	944	268
25°	858	855	848	846	842	395
35°	721	715	700	684	677	449
45°	547	538	514	486	476	420
55°	367	359	332	305	297	328
65°	216	210	192	181	179	217
75°	113	109	104	106	109	121
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°	993.9	993.9	993.9	993.9	993.9
2.5°	995.5	993.9	989.2	995.5	994.9
5°	992.3	990.2	986.0	991.8	991.3
7.5°	986.0	983.9	979.8	985.0	983.9
10°	976.6	974.5	970.3	976.1	973.5
12.5°	964.6	962.5	957.8	963.0	960.9
15°	949.4	947.8	942.1	947.3	943.6
17.5°	931.1	928.4	924.3	927.4	924.8
20°	910.6	907.5	900.7	903.8	901.2
22.5°	886.0	881.8	877.1	877.1	873.5
25°	858.3	855.1	847.8	846.2	842.0
27.5°	828.4	825.8	816.4	813.8	806.4
30°	794.9	791.2	781.3	772.9	766.6
32.5°	757.7	755.1	741.5	730.5	721.6
35°	721.1	714.8	700.1	684.4	677.1
37.5°	678.1	673.4	655.1	635.7	625.8
40°	635.2	629.4	608.0	586.5	576.0
42.5°	588.6	583.4	562.9	537.3	526.3
45°	546.7	538.3	513.7	486.0	475.5
47.5°	500.6	491.7	465.5	436.2	424.2
50°	451.9	446.2	418.9	390.6	381.7
52.5°	408.5	399.5	373.9	346.1	336.7
55°	367.1	358.7	331.5	305.3	296.9
57.5°	325.7	316.3	292.7	269.2	260.8
60°	287.0	277.5	254.5	235.1	229.9
62.5°	251.9	241.4	221.0	205.8	202.1
65°	216.3	209.5	191.7	180.7	178.6
67.5°	186.4	178.0	163.9	158.7	157.6
70°	159.2	153.4	141.4	139.8	139.8
72.5°	134.6	129.9	121.0	122.0	123.6
75°	112.6	109.4	104.2	106.3	109.4
77.5°	93.7	90.6	87.5	90.6	92.7
80°	75.9	72.8	72.3	74.9	76.5
82.5°	57.1	54.5	55.0	59.2	60.7
85°	39.8	38.2	37.2	41.9	42.4
87.5°	20.4	19.4	18.9	22.5	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)