

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: P290890

Luminaire Tested: **14GR-LD5-20-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290890
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-LD5-20-F125-UNV-L92765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1867.0 lumens
Efficiency: N/A
Efficacy: 118.1 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

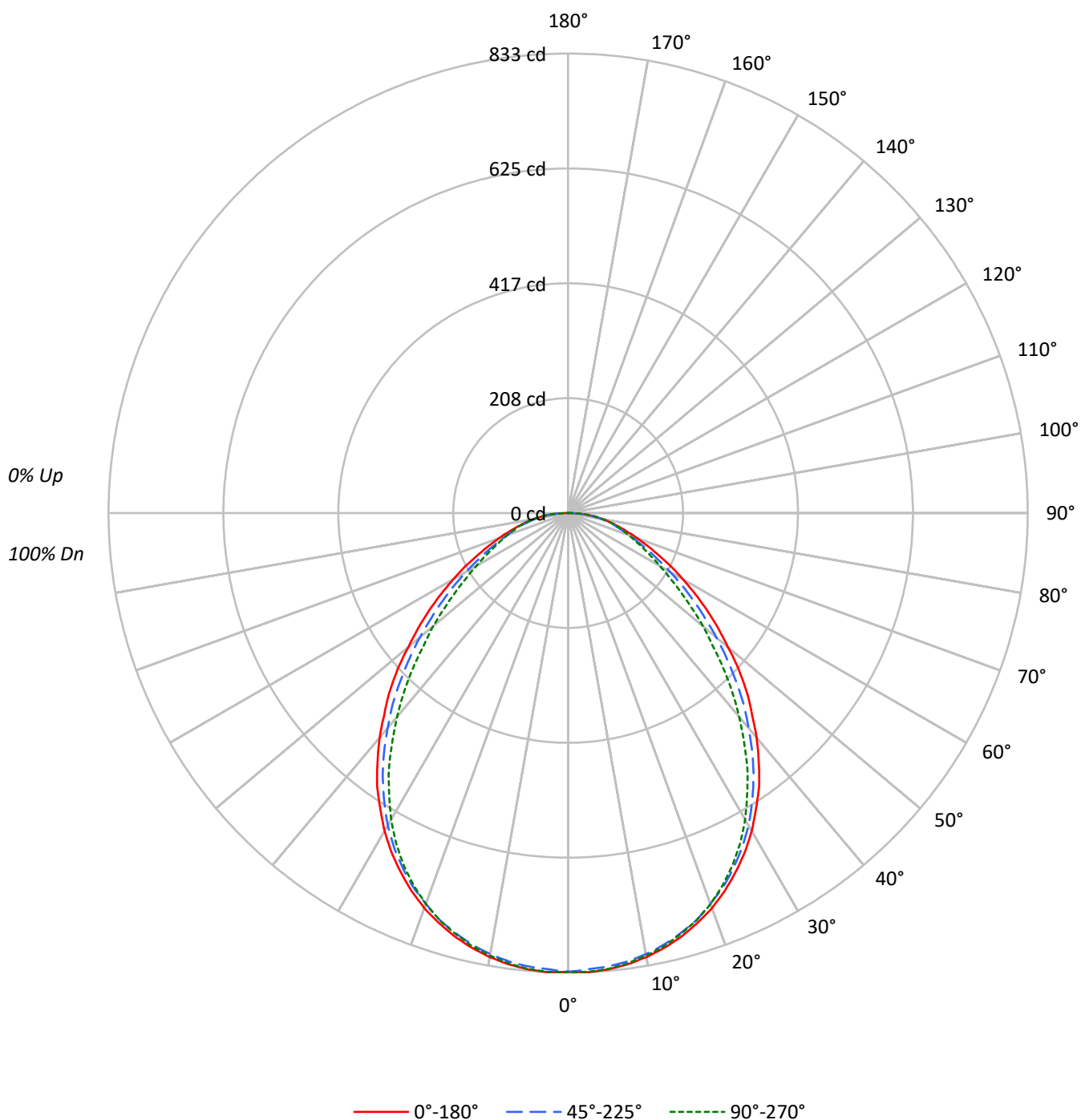
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290890

CATALOG NUMBER: 14GR-LD5-20-F125-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P290890

CATALOG NUMBER: 14GR-LD5-20-F125-UNV-L92765-W2A1-U-4500K

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°	2238	2238	2238
5°	2243	2229	2241
10°	2233	2219	2226
15°	2213	2196	2200
20°	2182	2158	2160
25°	2132	2107	2092
30°	2067	2032	1994
35°	1982	1925	1861
40°	1867	1787	1693
45°	1741	1636	1514
50°	1583	1468	1338
55°	1441	1301	1166
60°	1292	1146	1035
65°	1152	1021	951
70°	1048	931	921
75°	979	907	952
80°	984	938	992
85°	1028	960	1096



TEST NUMBER: P290890

CATALOG NUMBER: 14GR-LD5-20-F125-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	4.2
10°-20°	223.0	11.9
20°-30°	326.9	17.5
30°-40°	364.9	19.5
40°-50°	330.3	17.7
50°-60°	249.4	13.4
60°-70°	163.1	8.7
70°-80°	95.8	5.1
80°-90°	35.1	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°	628.5	33.7
0°-40°	993.4	53.2
0°-60°	1573.2	84.3
0°-90°	1867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1867.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	830	829	825	830	830	79
15°	794	793	788	793	790	224
25°	718	716	710	708	705	330
35°	603	598	586	573	567	376
45°	458	450	430	407	398	352
55°	307	300	277	256	248	275
65°	181	175	160	151	149	182
75°	94	92	87	89	92	101
85°	33	32	31	35	36	35
90°	0	0	0	0	0	



TEST NUMBER: P290890

CATALOG NUMBER: 14GR-LD5-20-F125-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	831.7	831.7	831.7	831.7	831.7
2.5°	833.1	831.7	827.8	833.1	832.6
5°	830.4	828.7	825.2	830.0	829.5
7.5°	825.2	823.4	819.9	824.3	823.4
10°	817.3	815.5	812.0	816.8	814.6
12.5°	807.2	805.4	801.5	805.9	804.1
15°	794.5	793.2	788.4	792.7	789.7
17.5°	779.2	777.0	773.5	776.1	773.9
20°	762.1	759.4	753.7	756.4	754.2
22.5°	741.5	738.0	734.0	734.0	730.9
25°	718.2	715.6	709.5	708.2	704.7
27.5°	693.3	691.1	683.2	681.0	674.9
30°	665.2	662.1	653.8	646.8	641.6
32.5°	634.1	631.9	620.5	611.3	603.9
35°	603.4	598.2	585.9	572.8	566.6
37.5°	567.5	563.5	548.2	532.0	523.7
40°	531.6	526.7	508.8	490.8	482.0
42.5°	492.6	488.2	471.1	449.6	440.4
45°	457.5	450.5	429.9	406.7	397.9
47.5°	418.9	411.5	389.6	365.0	355.0
50°	378.2	373.4	350.6	326.9	319.5
52.5°	341.8	334.4	312.9	289.7	281.8
55°	307.2	300.2	277.4	255.5	248.5
57.5°	272.6	264.7	245.0	225.2	218.2
60°	240.1	232.3	213.0	196.8	192.4
62.5°	210.8	202.0	184.9	172.2	169.2
65°	181.0	175.3	160.4	151.2	149.4
67.5°	156.0	149.0	137.2	132.8	131.9
70°	133.2	128.4	118.3	117.0	117.0
72.5°	112.6	108.7	101.2	102.1	103.4
75°	94.2	91.6	87.2	89.0	91.6
77.5°	78.4	75.8	73.2	75.8	77.6
80°	63.5	60.9	60.5	62.7	64.0
82.5°	47.8	45.6	46.0	49.5	50.8
85°	33.3	32.0	31.1	35.1	35.5
87.5°	17.1	16.2	15.8	18.8	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)