

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: P290790

Luminaire Tested: **14GR-LD5-20-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290790
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-L82765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2013.0 lumens
Efficiency: N/A
Efficacy: 128.8 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

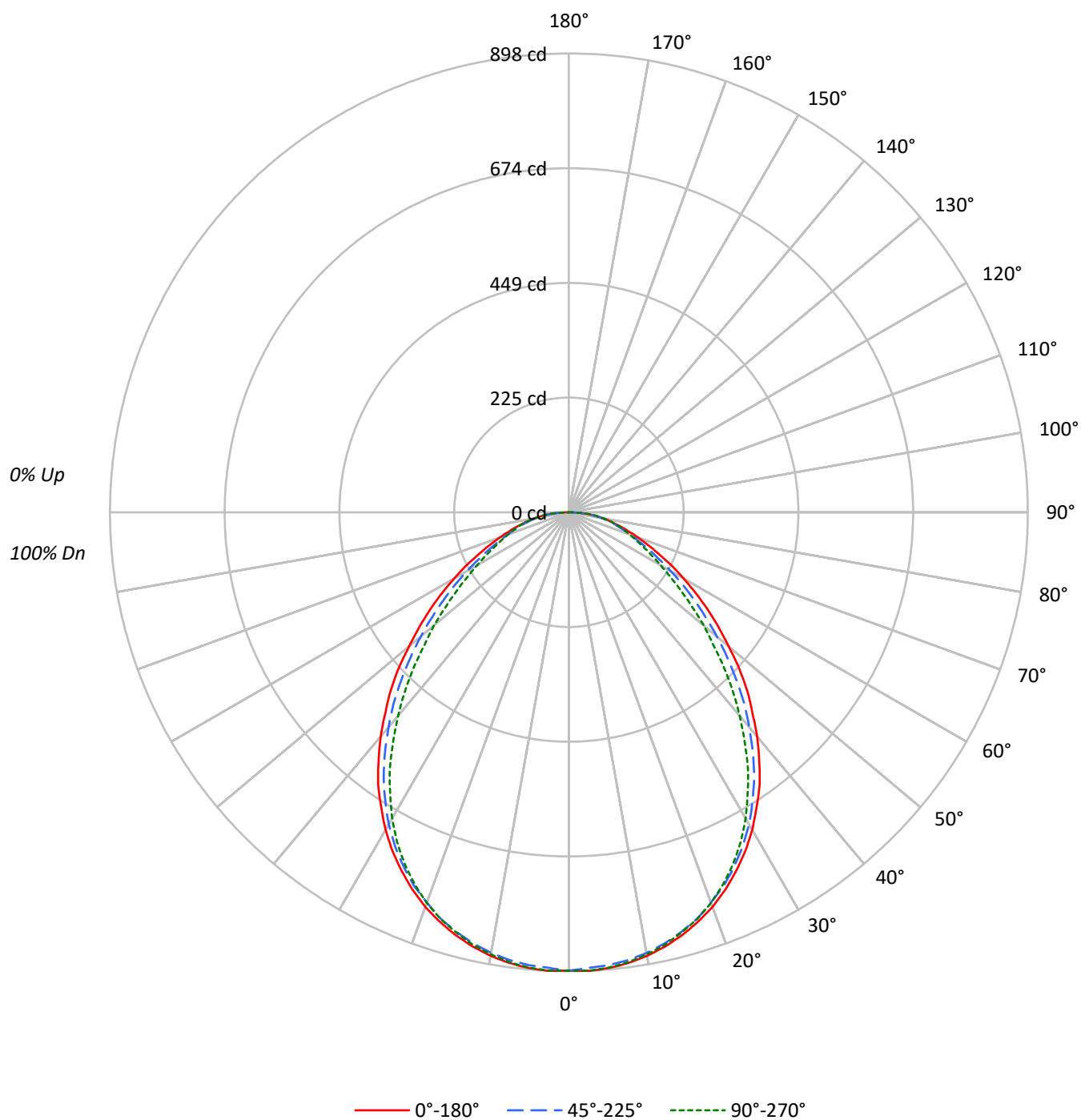
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290790

CATALOG NUMBER: 14GR-LD5-20-F125-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P290790

CATALOG NUMBER: 14GR-LD5-20-F125-UNV-L82765-W2A1-U-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2413	2413	2413
5°	2419	2403	2416
10°	2408	2392	2400
15°	2386	2368	2372
20°	2353	2327	2328
25°	2299	2271	2256
30°	2229	2190	2149
35°	2137	2075	2007
40°	2013	1927	1826
45°	1877	1764	1633
50°	1707	1582	1442
55°	1554	1403	1257
60°	1393	1236	1116
65°	1242	1101	1026
70°	1130	1004	993
75°	1056	977	1026
80°	1062	1010	1069
85°	1108	1034	1183



TEST NUMBER: P290790

CATALOG NUMBER: 14GR-LD5-20-F125-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	4.2
10°-20°	240.4	11.9
20°-30°	352.5	17.5
30°-40°	393.4	19.5
40°-50°	356.2	17.7
50°-60°	268.9	13.4
60°-70°	175.8	8.7
70°-80°	103.2	5.1
80°-90°	37.8	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°	677.7	33.7
0°-40°	1071.0	53.2
0°-60°	1696.1	84.3
0°-90°	2013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2013.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	895	894	890	895	894	85
15°	857	855	850	855	851	241
25°	774	772	765	764	760	356
35°	651	645	632	618	611	405
45°	493	486	464	438	429	379
55°	331	324	299	276	268	296
65°	195	189	173	163	161	196
75°	102	99	94	96	99	109
85°	36	34	34	38	38	38
90°	0	0	0	0	0	



TEST NUMBER: P290790

CATALOG NUMBER: 14GR-LD5-20-F125-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	896.8	896.8	896.8	896.8	896.8
2.5°	898.2	896.8	892.5	898.2	897.7
5°	895.4	893.5	889.7	894.9	894.4
7.5°	889.7	887.8	884.0	888.7	887.8
10°	881.2	879.3	875.5	880.7	878.4
12.5°	870.3	868.4	864.2	868.9	867.0
15°	856.6	855.2	850.0	854.7	851.4
17.5°	840.1	837.7	833.9	836.8	834.4
20°	821.7	818.8	812.7	815.5	813.1
22.5°	799.4	795.7	791.4	791.4	788.1
25°	774.4	771.6	765.0	763.5	759.8
27.5°	747.5	745.1	736.6	734.2	727.6
30°	717.2	713.9	704.9	697.4	691.7
32.5°	683.7	681.3	669.0	659.1	651.1
35°	650.6	644.9	631.7	617.5	610.9
37.5°	611.9	607.6	591.1	573.6	564.6
40°	573.1	567.9	548.6	529.2	519.7
42.5°	531.1	526.3	507.9	484.8	474.8
45°	493.3	485.7	463.5	438.5	429.0
47.5°	451.7	443.7	420.0	393.6	382.7
50°	407.8	402.6	378.0	352.5	344.4
52.5°	368.5	360.5	337.4	312.3	303.8
55°	331.2	323.7	299.1	275.5	267.9
57.5°	293.9	285.4	264.1	242.9	235.3
60°	258.9	250.4	229.6	212.1	207.4
62.5°	227.3	217.8	199.4	185.7	182.4
65°	195.1	189.0	172.9	163.0	161.1
67.5°	168.2	160.6	147.9	143.2	142.2
70°	143.6	138.4	127.6	126.2	126.2
72.5°	121.4	117.2	109.1	110.1	111.5
75°	101.6	98.7	94.0	95.9	98.7
77.5°	84.6	81.7	78.9	81.7	83.6
80°	68.5	65.7	65.2	67.6	69.0
82.5°	51.5	49.1	49.6	53.4	54.8
85°	35.9	34.5	33.5	37.8	38.3
87.5°	18.4	17.5	17.0	20.3	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)