

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: P290603

Luminaire Tested: **14GR-LD5-24-F1-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-F1-UNV-L82765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2357.0 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

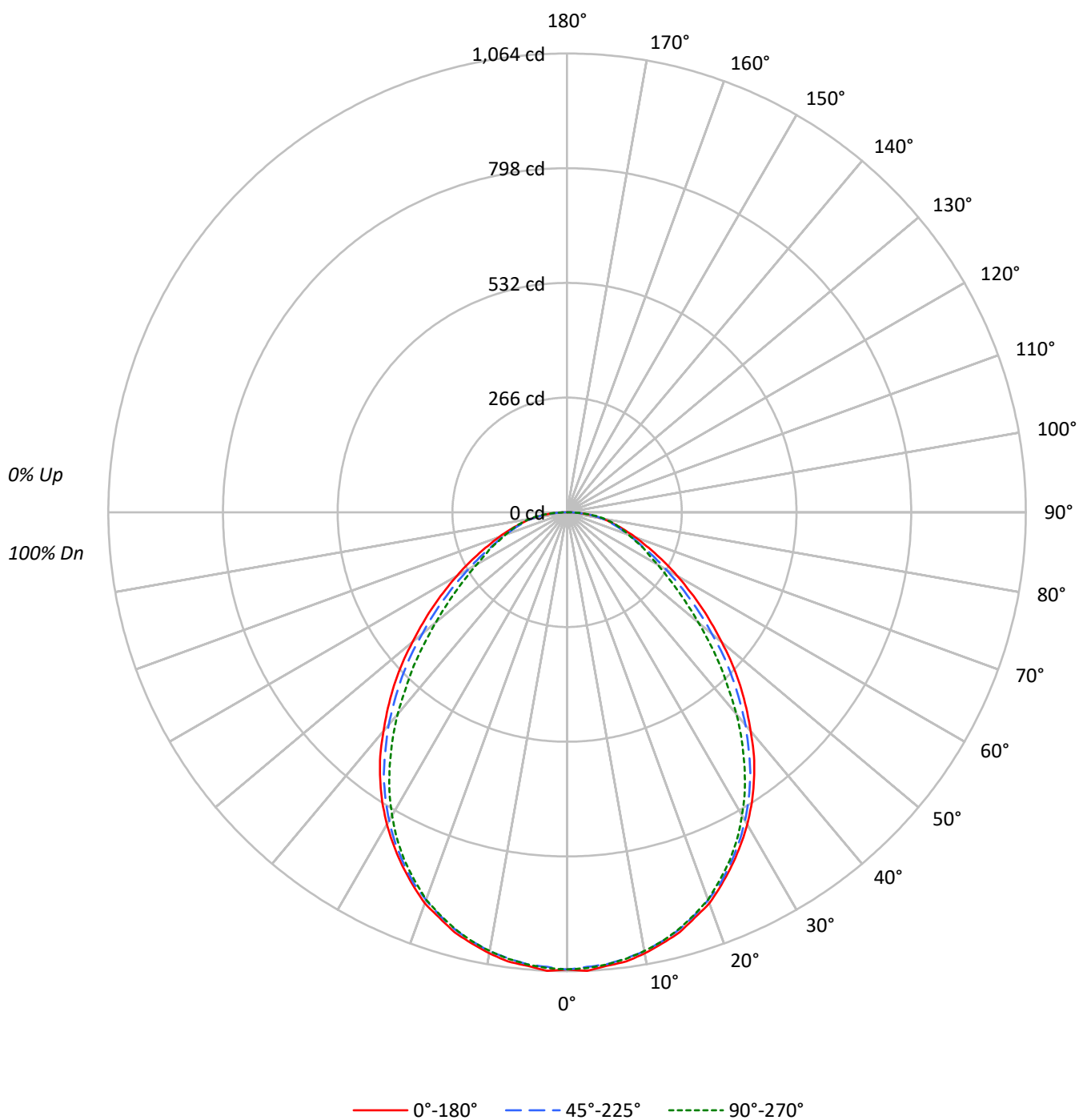
Input Watts (W): 18.321
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290603

CATALOG NUMBER: 14GR-LD5-24-F1-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P290603

CATALOG NUMBER: 14GR-LD5-24-F1-UNV-L82765-W2A1-U-3500K

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	87
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	57		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	61	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		52	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°	2852	2852	2852
5°	2852	2841	2843
10°	2837	2824	2823
15°	2808	2792	2788
20°	2763	2740	2737
25°	2684	2666	2647
30°	2597	2565	2522
35°	2483	2435	2355
40°	2325	2261	2148
45°	2159	2062	1912
50°	1959	1837	1665
55°	1772	1622	1455
60°	1590	1422	1297
65°	1428	1270	1242
70°	1318	1182	1194
75°	1258	1185	1253
80°	1272	1265	1365
85°	1318	1300	1451



TEST NUMBER: P290603

CATALOG NUMBER: 14GR-LD5-24-F1-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	4.2
10°-20°	282.9	12.0
20°-30°	413.1	17.5
30°-40°	460.3	19.5
40°-50°	414.8	17.6
50°-60°	310.1	13.2
60°-70°	204.5	8.7
70°-80°	124.9	5.3
80°-90°	46.3	2.0
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°	796.1	33.8
0°-40°	1256.4	53.3
0°-60°	1981.3	84.1
0°-90°	2357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1056	1055	1052	1057	1052	100
15°	1008	1004	1002	1008	1001	284
25°	904	901	898	900	891	416
35°	756	749	741	728	717	471
45°	567	561	542	517	502	437
55°	378	372	346	317	310	338
65°	224	217	199	191	195	225
75°	121	119	114	118	120	129
85°	43	41	42	46	47	45
90°	0	0	0	0	0	



TEST NUMBER: P290603

CATALOG NUMBER: 14GR-LD5-24-F1-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1060.0	1060.0	1060.0	1060.0	1060.0
2.5°	1064.3	1059.5	1055.1	1061.6	1057.8
5°	1055.7	1054.6	1051.9	1057.3	1052.4
7.5°	1050.3	1046.5	1043.3	1049.7	1044.3
10°	1038.4	1036.2	1033.5	1038.9	1033.0
12.5°	1023.8	1021.6	1018.9	1025.4	1018.9
15°	1008.1	1004.4	1002.2	1008.1	1000.6
17.5°	985.4	983.8	980.6	986.5	979.0
20°	964.9	959.0	956.8	961.1	955.7
22.5°	935.2	930.9	930.3	933.0	923.9
25°	903.9	900.6	897.9	899.5	891.4
27.5°	870.9	866.6	863.3	862.8	854.2
30°	835.8	830.4	825.5	821.2	811.5
32.5°	797.4	790.9	784.5	777.4	767.2
35°	755.8	749.3	741.2	728.3	716.9
37.5°	712.1	704.5	691.5	676.4	665.1
40°	661.8	658.0	643.5	624.0	611.6
42.5°	614.8	610.5	592.1	570.5	553.8
45°	567.3	561.3	541.9	517.0	502.4
47.5°	518.7	512.7	491.1	460.3	447.3
50°	467.9	464.6	438.7	410.6	397.6
52.5°	421.4	417.6	391.2	363.1	351.2
55°	377.6	371.7	345.8	317.1	310.1
57.5°	333.9	327.4	303.1	278.8	273.9
60°	295.5	287.4	264.2	245.3	241.0
62.5°	259.3	250.1	230.7	216.1	213.9
65°	224.2	217.2	199.4	191.3	195.0
67.5°	194.0	186.9	174.0	170.7	169.6
70°	167.5	161.0	150.2	151.3	151.8
72.5°	143.2	139.4	131.3	134.0	136.1
75°	121.0	118.9	114.0	117.8	120.5
77.5°	101.0	99.4	97.2	100.5	104.8
80°	82.1	81.0	81.6	83.7	88.1
82.5°	63.2	61.1	62.7	67.0	69.7
85°	42.7	41.1	42.1	46.5	47.0
87.5°	20.0	20.0	19.4	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)