

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: P292719

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-26)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-FGW080-UNV-L83050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2038.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

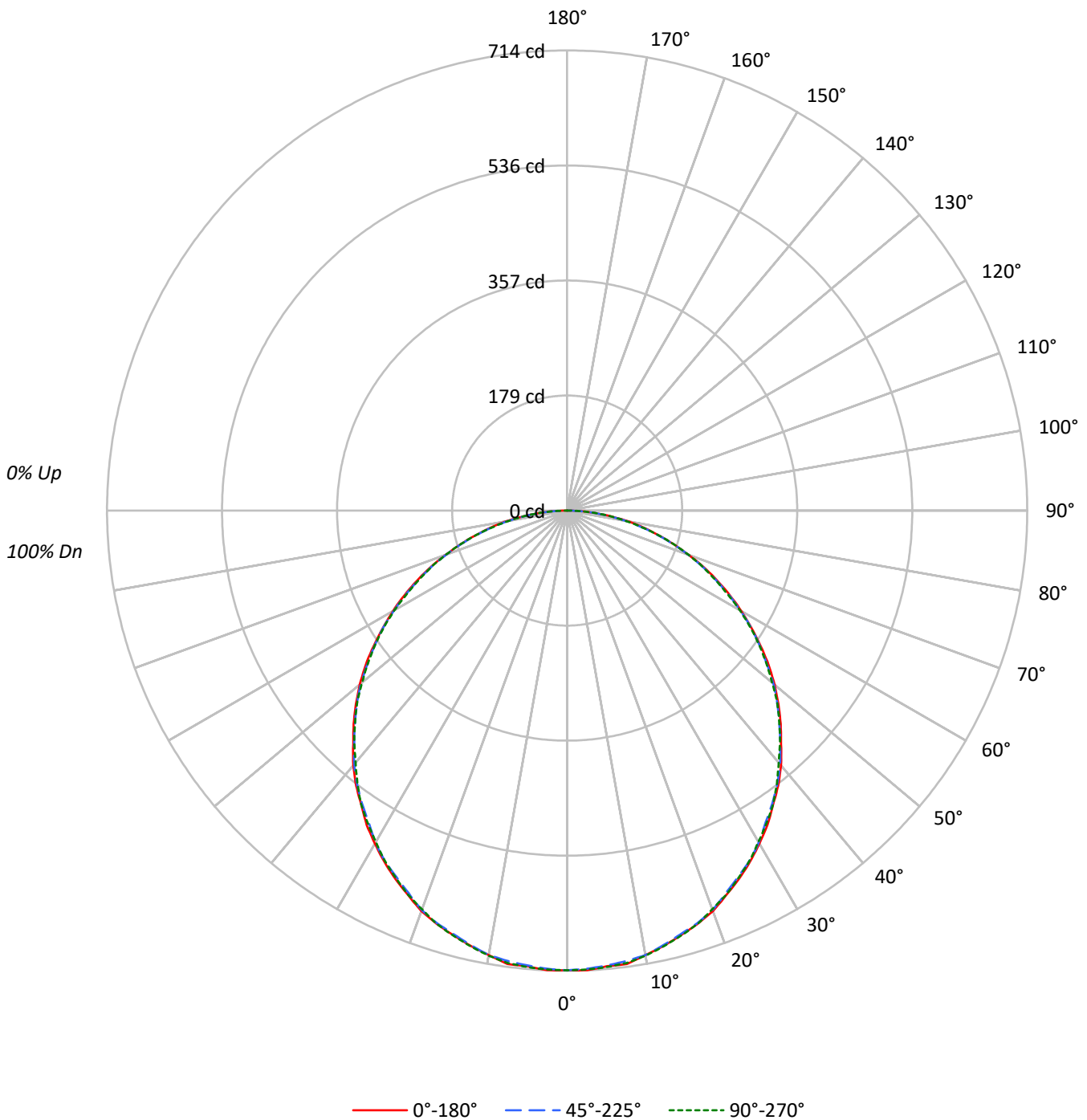
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292719

CATALOG NUMBER: 22GR-LD5-24-FGW080-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P292719

CATALOG NUMBER: 22GR-LD5-24-FGW080-UNV-L83050-W2A1-U-3500K

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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1919	1919	1919
5°	1917	1914	1920
10°	1913	1913	1917
15°	1901	1896	1902
20°	1894	1889	1885
25°	1873	1862	1867
30°	1854	1848	1844
35°	1830	1822	1830
40°	1814	1806	1793
45°	1783	1772	1772
50°	1759	1749	1739
55°	1721	1710	1707
60°	1681	1672	1665
65°	1638	1619	1612
70°	1573	1568	1573
75°	1518	1499	1512
80°	1502	1429	1420
85°	1331	1294	1312



TEST NUMBER: P292719

CATALOG NUMBER: 22GR-LD5-24-FGW080-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	3.3
10°-20°	192.5	9.4
20°-30°	289.9	14.2
30°-40°	347.9	17.1
40°-50°	360.0	17.7
50°-60°	326.2	16.0
60°-70°	252.9	12.4
70°-80°	153.5	7.5
80°-90°	47.5	2.3
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°	549.9	27.0
0°-40°	897.9	44.1
0°-60°	1584.1	77.7
0°-90°	2038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	713	713	713	713	713	
5°	710	710	708	710	711	68
15°	682	682	680	683	683	193
25°	631	630	627	630	629	291
35°	557	557	555	555	557	349
45°	469	468	466	466	466	362
55°	367	366	364	364	364	328
65°	257	257	254	256	253	254
75°	146	145	144	144	145	155
85°	43	42	42	42	42	49
90°	0	0	0	0	0	



TEST NUMBER: P292719

CATALOG NUMBER: 22GR-LD5-24-FGW080-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	713.3	713.3	713.3	713.3	713.3
2.5°	713.9	710.9	711.5	712.7	712.7
5°	709.7	709.7	708.5	710.3	710.9
7.5°	709.7	706.7	704.9	706.7	707.9
10°	700.2	699.0	700.2	699.6	701.4
12.5°	691.8	690.6	690.6	692.4	692.4
15°	682.2	682.2	680.4	683.4	682.8
17.5°	672.6	672.6	671.4	671.4	672.6
20°	661.3	658.3	659.5	658.9	658.3
22.5°	645.7	643.9	642.7	644.5	645.1
25°	630.7	629.5	627.1	629.5	628.9
27.5°	614.6	613.4	612.8	611.6	612.8
30°	596.6	595.4	594.8	593.6	593.6
32.5°	578.7	576.3	573.3	576.3	575.7
35°	557.1	557.1	554.7	555.3	557.1
37.5°	538.0	536.8	535.6	533.8	534.4
40°	516.4	514.6	514.0	512.8	510.5
42.5°	491.3	491.3	488.9	489.5	488.9
45°	468.6	468.0	465.6	465.6	465.6
47.5°	444.6	444.0	442.2	441.0	442.2
50°	420.1	417.7	417.7	415.9	415.3
52.5°	394.4	392.6	390.2	390.8	389.6
55°	366.8	366.2	364.4	363.8	363.8
57.5°	339.3	339.9	338.7	336.3	336.9
60°	312.4	311.8	310.6	309.4	309.4
62.5°	284.8	284.8	282.5	282.5	280.1
65°	257.3	257.3	254.3	255.5	253.1
67.5°	229.8	229.2	227.4	226.8	227.4
70°	199.9	200.5	199.3	199.3	199.9
72.5°	172.9	172.3	171.7	171.7	172.9
75°	146.0	145.4	144.2	144.2	145.4
77.5°	121.5	118.5	117.9	119.1	117.3
80°	96.9	92.8	92.2	91.6	91.6
82.5°	68.2	66.4	67.0	66.4	67.6
85°	43.1	42.5	41.9	41.9	42.5
87.5°	20.3	19.1	19.1	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)