

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: P292764

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292764
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-L82765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2125.0 lumens
Efficiency: N/A
Efficacy: 114.2 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

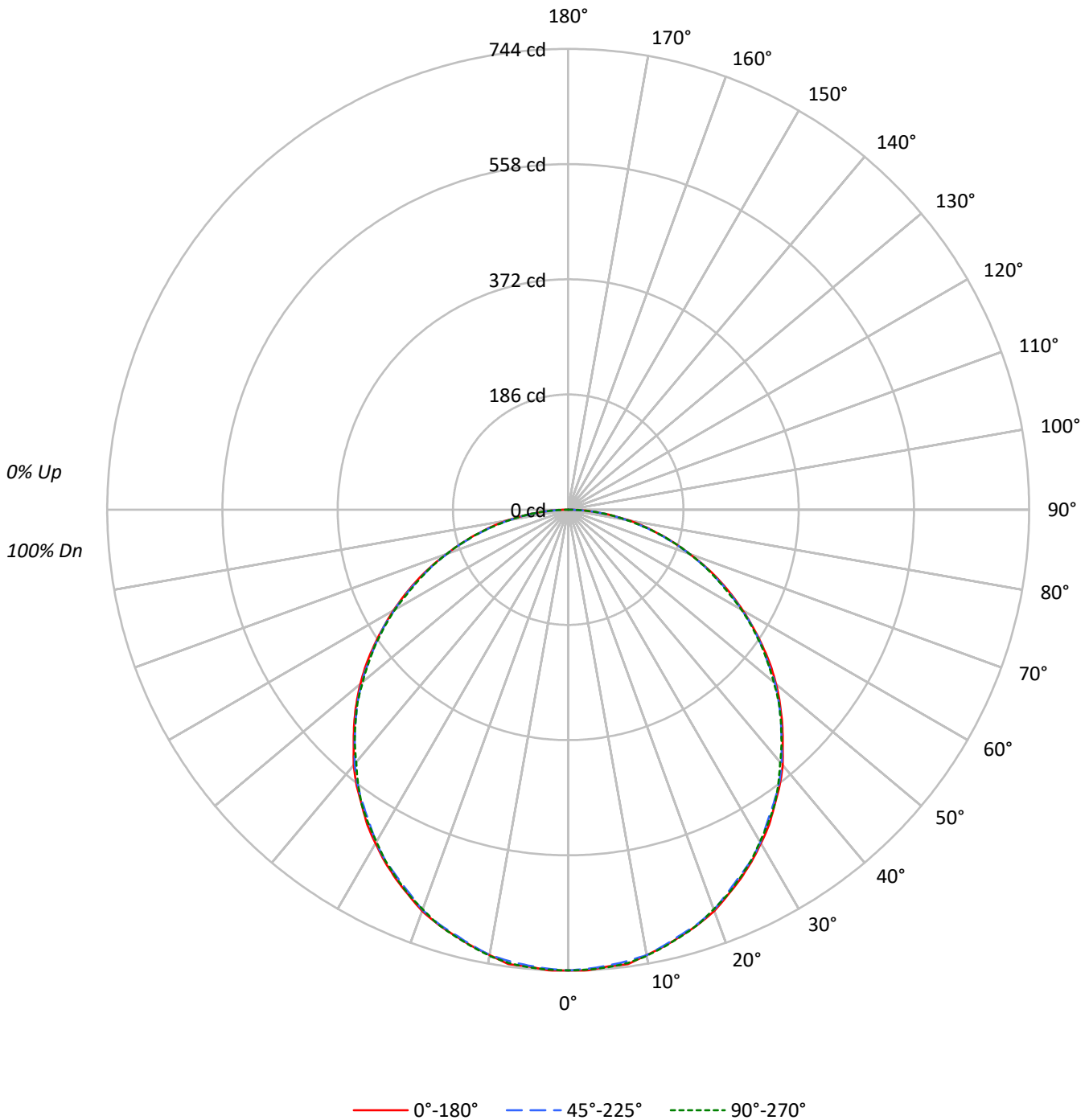
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	2002	2002	2002
5°	1999	1996	2002
10°	1995	1995	1998
15°	1982	1977	1983
20°	1975	1969	1966
25°	1953	1942	1947
30°	1933	1927	1923
35°	1908	1900	1908
40°	1892	1883	1870
45°	1859	1847	1847
50°	1834	1823	1813
55°	1795	1783	1780
60°	1753	1743	1736
65°	1708	1689	1680
70°	1640	1635	1640
75°	1582	1564	1576
80°	1567	1489	1480
85°	1386	1349	1368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	3.3
10°-20°	200.8	9.4
20°-30°	302.3	14.2
30°-40°	362.8	17.1
40°-50°	375.4	17.7
50°-60°	340.2	16.0
60°-70°	263.7	12.4
70°-80°	160.1	7.5
80°-90°	49.5	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°	573.4	27.0
0°-40°	936.2	44.1
0°-60°	1651.7	77.7
0°-90°	2125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	740	740	739	741	741	70
15°	711	711	710	713	712	201
25°	658	656	654	656	656	303
35°	581	581	578	579	581	364
45°	489	488	485	485	485	377
55°	382	382	380	379	379	342
65°	268	268	265	266	264	265
75°	152	152	150	150	152	162
85°	45	44	44	44	44	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.8	743.8	743.8	743.8	743.8
2.5°	744.4	741.3	741.9	743.1	743.1
5°	740.0	740.0	738.8	740.7	741.3
7.5°	740.0	736.9	735.0	736.9	738.2
10°	730.0	728.8	730.0	729.4	731.3
12.5°	721.3	720.1	720.1	721.9	721.9
15°	711.3	711.3	709.5	712.6	711.9
17.5°	701.3	701.3	700.1	700.1	701.3
20°	689.5	686.4	687.6	687.0	686.4
22.5°	673.3	671.4	670.1	672.0	672.6
25°	657.7	656.4	653.9	656.4	655.8
27.5°	640.8	639.6	638.9	637.7	638.9
30°	622.1	620.8	620.2	619.0	619.0
32.5°	603.4	600.9	597.8	600.9	600.3
35°	580.9	580.9	578.4	579.0	580.9
37.5°	560.9	559.7	558.5	556.6	557.2
40°	538.5	536.6	536.0	534.7	532.2
42.5°	512.3	512.3	509.8	510.4	509.8
45°	488.6	487.9	485.4	485.4	485.4
47.5°	463.6	463.0	461.1	459.9	461.1
50°	438.0	435.5	435.5	433.7	433.0
52.5°	411.2	409.3	406.8	407.5	406.2
55°	382.5	381.9	380.0	379.4	379.4
57.5°	353.8	354.4	353.2	350.7	351.3
60°	325.7	325.1	323.8	322.6	322.6
62.5°	297.0	297.0	294.5	294.5	292.0
65°	268.3	268.3	265.2	266.4	263.9
67.5°	239.6	239.0	237.1	236.5	237.1
70°	208.4	209.0	207.8	207.8	208.4
72.5°	180.3	179.7	179.1	179.1	180.3
75°	152.2	151.6	150.4	150.4	151.6
77.5°	126.7	123.5	122.9	124.2	122.3
80°	101.1	96.7	96.1	95.5	95.5
82.5°	71.1	69.3	69.9	69.3	70.5
85°	44.9	44.3	43.7	43.7	44.3
87.5°	21.2	20.0	20.0	19.3	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)