

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: P292761

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292761
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-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2070.0 lumens
Efficiency: N/A
Efficacy: 111.9 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

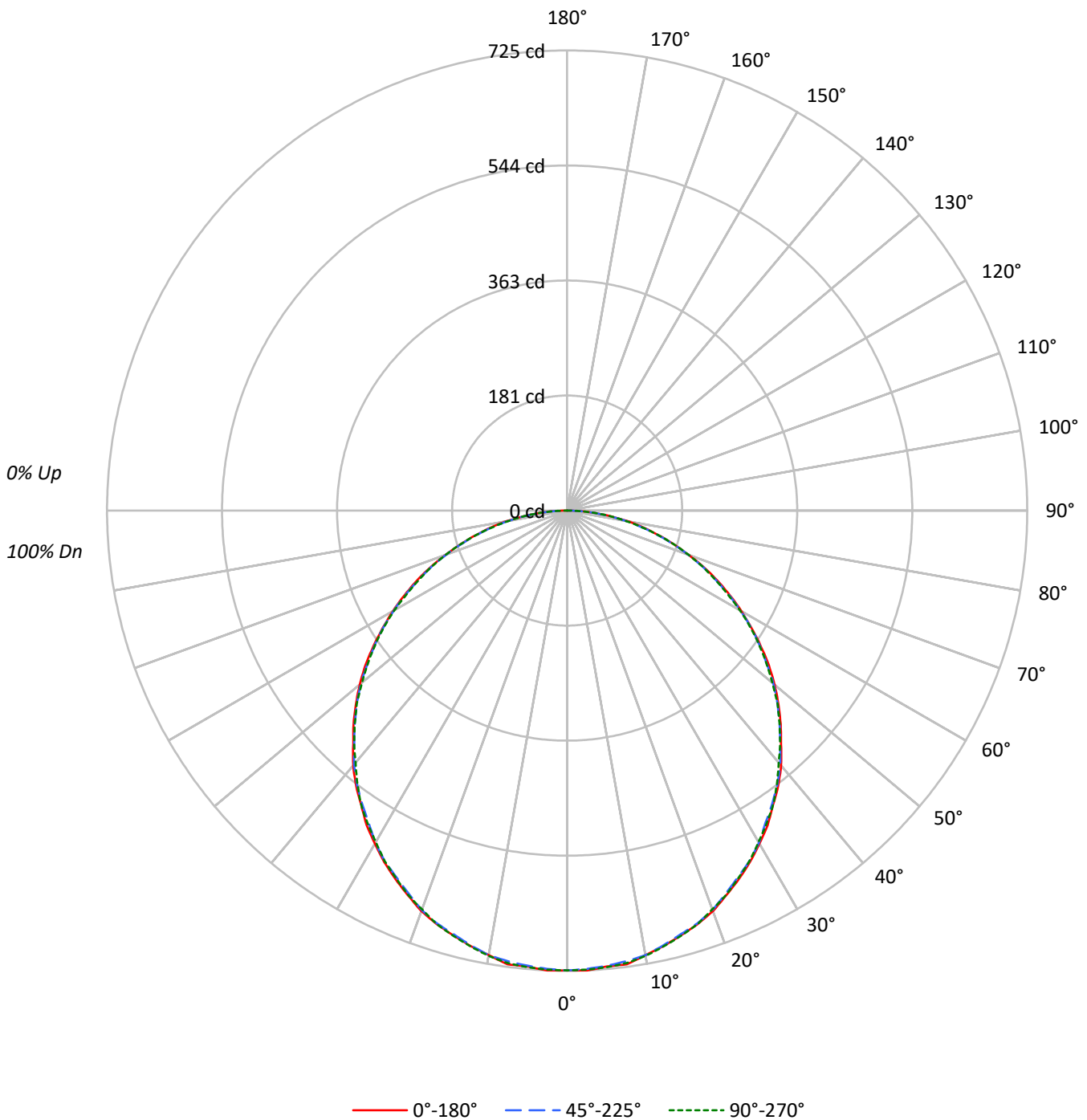
Input Watts (W): 18.507
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1950	1950	1950
5°	1947	1944	1951
10°	1943	1943	1947
15°	1930	1925	1932
20°	1923	1918	1915
25°	1902	1891	1897
30°	1883	1877	1874
35°	1859	1851	1859
40°	1842	1834	1821
45°	1811	1800	1800
50°	1786	1776	1766
55°	1748	1737	1734
60°	1708	1698	1691
65°	1664	1645	1637
70°	1597	1592	1597
75°	1542	1523	1536
80°	1526	1450	1441
85°	1352	1312	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	3.3
10°-20°	195.6	9.4
20°-30°	294.5	14.2
30°-40°	353.4	17.1
40°-50°	365.7	17.7
50°-60°	331.4	16.0
60°-70°	256.9	12.4
70°-80°	155.9	7.5
80°-90°	48.3	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°	558.6	27.0
0°-40°	912.0	44.1
0°-60°	1609.0	77.7
0°-90°	2070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	721	721	720	722	722	69
15°	693	693	691	694	694	196
25°	641	639	637	639	639	295
35°	566	566	563	564	566	355
45°	476	475	473	473	473	367
55°	373	372	370	370	370	333
65°	261	261	258	260	257	258
75°	148	148	146	146	148	158
85°	44	43	42	42	43	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	724.5	724.5	724.5	724.5	724.5
2.5°	725.1	722.1	722.7	723.9	723.9
5°	720.9	720.9	719.7	721.5	722.1
7.5°	720.9	717.8	716.0	717.8	719.0
10°	711.1	709.9	711.1	710.5	712.4
12.5°	702.6	701.4	701.4	703.2	703.2
15°	692.9	692.9	691.1	694.1	693.5
17.5°	683.2	683.2	682.0	682.0	683.2
20°	671.6	668.6	669.8	669.2	668.6
22.5°	655.8	654.0	652.8	654.6	655.2
25°	640.6	639.4	637.0	639.4	638.8
27.5°	624.2	623.0	622.4	621.2	622.4
30°	606.0	604.8	604.2	603.0	603.0
32.5°	587.8	585.3	582.3	585.3	584.7
35°	565.9	565.9	563.4	564.1	565.9
37.5°	546.4	545.2	544.0	542.2	542.8
40°	524.5	522.7	522.1	520.9	518.5
42.5°	499.0	499.0	496.6	497.2	496.6
45°	475.9	475.3	472.9	472.9	472.9
47.5°	451.6	451.0	449.2	448.0	449.2
50°	426.7	424.3	424.3	422.4	421.8
52.5°	400.6	398.7	396.3	396.9	395.7
55°	372.6	372.0	370.2	369.6	369.6
57.5°	344.6	345.2	344.0	341.6	342.2
60°	317.3	316.7	315.5	314.2	314.2
62.5°	289.3	289.3	286.9	286.9	284.5
65°	261.4	261.4	258.3	259.5	257.1
67.5°	233.4	232.8	231.0	230.4	231.0
70°	203.0	203.6	202.4	202.4	203.0
72.5°	175.7	175.1	174.4	174.4	175.7
75°	148.3	147.7	146.5	146.5	147.7
77.5°	123.4	120.3	119.7	121.0	119.1
80°	98.5	94.2	93.6	93.0	93.0
82.5°	69.3	67.5	68.1	67.5	68.7
85°	43.8	43.2	42.5	42.5	43.2
87.5°	20.7	19.5	19.5	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)