

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: P292762

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292762
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-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2098.0 lumens
Efficiency: N/A
Efficacy: 112.8 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

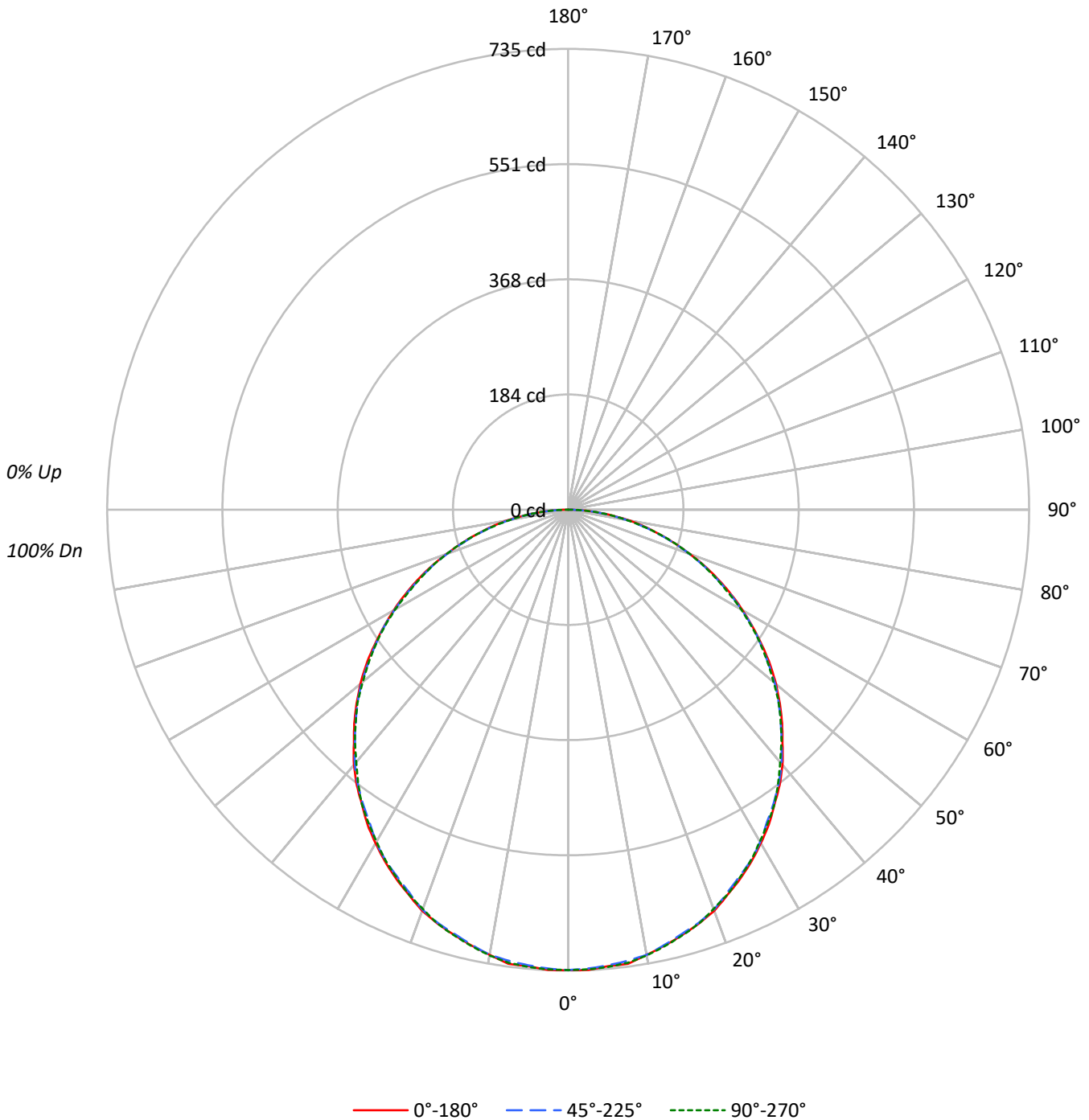
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1976	1976	1976
5°	1974	1970	1977
10°	1970	1970	1973
15°	1957	1951	1958
20°	1949	1944	1940
25°	1928	1917	1923
30°	1908	1903	1899
35°	1884	1876	1884
40°	1867	1859	1846
45°	1836	1824	1824
50°	1811	1800	1790
55°	1772	1760	1757
60°	1731	1721	1714
65°	1687	1667	1659
70°	1619	1614	1619
75°	1563	1544	1556
80°	1547	1471	1461
85°	1371	1331	1349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	3.3
10°-20°	198.2	9.4
20°-30°	298.5	14.2
30°-40°	358.2	17.1
40°-50°	370.6	17.7
50°-60°	335.8	16.0
60°-70°	260.3	12.4
70°-80°	158.0	7.5
80°-90°	48.9	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°	566.1	27.0
0°-40°	924.3	44.1
0°-60°	1630.7	77.7
0°-90°	2098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2098.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	731	731	729	731	732	70
15°	702	702	700	704	703	198
25°	649	648	646	648	648	299
35°	574	574	571	572	574	360
45°	482	482	479	479	479	372
55°	378	377	375	375	375	338
65°	265	265	262	263	261	262
75°	150	150	148	148	150	160
85°	44	44	43	43	44	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	734.3	734.3	734.3	734.3	734.3
2.5°	734.9	731.9	732.5	733.7	733.7
5°	730.6	730.6	729.4	731.2	731.9
7.5°	730.6	727.5	725.7	727.5	728.8
10°	720.8	719.5	720.8	720.2	722.0
12.5°	712.1	710.9	710.9	712.8	712.8
15°	702.3	702.3	700.4	703.5	702.9
17.5°	692.4	692.4	691.2	691.2	692.4
20°	680.7	677.6	678.9	678.3	677.6
22.5°	664.7	662.9	661.6	663.5	664.1
25°	649.3	648.1	645.6	648.1	647.5
27.5°	632.7	631.4	630.8	629.6	630.8
30°	614.2	613.0	612.3	611.1	611.1
32.5°	595.7	593.2	590.2	593.2	592.6
35°	573.5	573.5	571.1	571.7	573.5
37.5°	553.8	552.6	551.4	549.5	550.1
40°	531.6	529.8	529.2	527.9	525.5
42.5°	505.8	505.8	503.3	503.9	503.3
45°	482.4	481.7	479.3	479.3	479.3
47.5°	457.7	457.1	455.3	454.0	455.3
50°	432.5	430.0	430.0	428.1	427.5
52.5°	406.0	404.1	401.7	402.3	401.0
55°	377.6	377.0	375.2	374.6	374.6
57.5°	349.3	349.9	348.7	346.2	346.8
60°	321.6	321.0	319.7	318.5	318.5
62.5°	293.2	293.2	290.8	290.8	288.3
65°	264.9	264.9	261.8	263.0	260.6
67.5°	236.6	235.9	234.1	233.5	234.1
70°	205.8	206.4	205.1	205.1	205.8
72.5°	178.0	177.4	176.8	176.8	178.0
75°	150.3	149.7	148.5	148.5	149.7
77.5°	125.1	122.0	121.4	122.6	120.7
80°	99.8	95.5	94.9	94.3	94.3
82.5°	70.2	68.4	69.0	68.4	69.6
85°	44.4	43.7	43.1	43.1	43.7
87.5°	20.9	19.7	19.7	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)