

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: P292720

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292720
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-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2140.0 lumens
Efficiency: N/A
Efficacy: 115.6 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

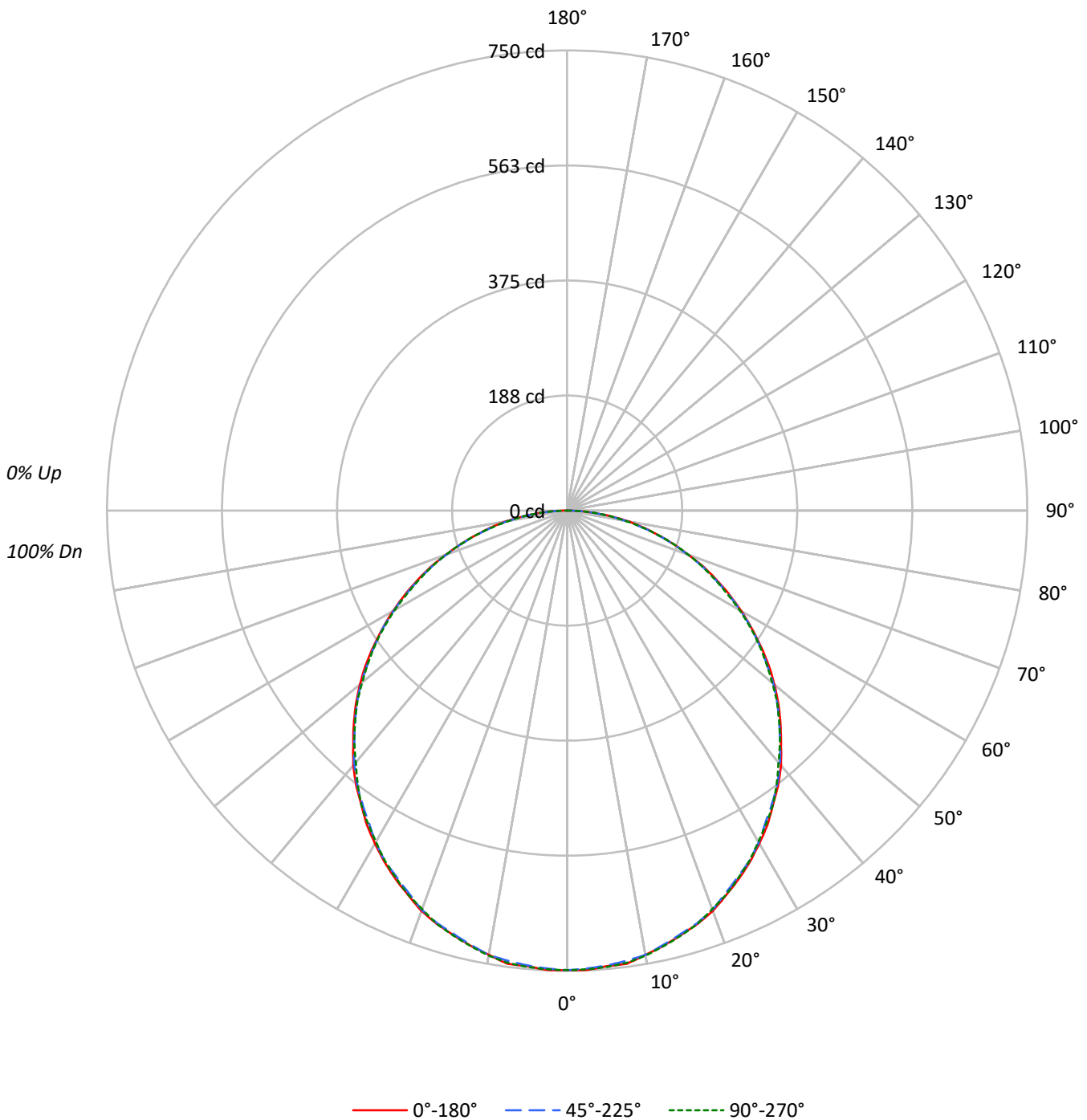
Input Watts (W): 18.507
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2016	2016	2016
5°	2013	2010	2016
10°	2009	2009	2012
15°	1996	1991	1997
20°	1989	1983	1979
25°	1966	1955	1961
30°	1947	1941	1937
35°	1922	1914	1922
40°	1905	1896	1883
45°	1872	1861	1861
50°	1847	1836	1826
55°	1807	1795	1793
60°	1765	1755	1749
65°	1720	1701	1692
70°	1651	1646	1651
75°	1594	1574	1588
80°	1578	1500	1489
85°	1396	1359	1377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	3.3
10°-20°	202.2	9.4
20°-30°	304.4	14.2
30°-40°	365.3	17.1
40°-50°	378.0	17.7
50°-60°	342.6	16.0
60°-70°	265.5	12.4
70°-80°	161.2	7.5
80°-90°	49.9	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°	577.5	27.0
0°-40°	942.8	44.1
0°-60°	1663.4	77.7
0°-90°	2140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2140.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	745	745	744	746	746	71
15°	716	716	714	718	717	202
25°	662	661	658	661	660	305
35°	585	585	582	583	585	367
45°	492	491	489	489	489	380
55°	385	385	383	382	382	344
65°	270	270	267	268	266	267
75°	153	153	151	151	153	163
85°	45	45	44	44	45	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	749.0	749.0	749.0	749.0	749.0
2.5°	749.6	746.5	747.1	748.4	748.4
5°	745.2	745.2	744.0	745.9	746.5
7.5°	745.2	742.1	740.2	742.1	743.4
10°	735.2	733.9	735.2	734.6	736.5
12.5°	726.4	725.1	725.1	727.0	727.0
15°	716.3	716.3	714.5	717.6	717.0
17.5°	706.3	706.3	705.0	705.0	706.3
20°	694.4	691.2	692.5	691.8	691.2
22.5°	678.0	676.1	674.9	676.8	677.4
25°	662.3	661.0	658.5	661.0	660.4
27.5°	645.3	644.1	643.5	642.2	643.5
30°	626.5	625.2	624.6	623.3	623.3
32.5°	607.6	605.1	602.0	605.1	604.5
35°	585.0	585.0	582.5	583.1	585.0
37.5°	564.9	563.7	562.4	560.5	561.1
40°	542.3	540.4	539.8	538.5	536.0
42.5°	515.9	515.9	513.4	514.0	513.4
45°	492.0	491.4	488.9	488.9	488.9
47.5°	466.9	466.3	464.4	463.1	464.4
50°	441.1	438.6	438.6	436.7	436.1
52.5°	414.1	412.2	409.7	410.3	409.1
55°	385.2	384.6	382.7	382.1	382.1
57.5°	356.3	356.9	355.7	353.1	353.8
60°	328.0	327.4	326.1	324.9	324.9
62.5°	299.1	299.1	296.6	296.6	294.1
65°	270.2	270.2	267.1	268.3	265.8
67.5°	241.3	240.7	238.8	238.2	238.8
70°	209.9	210.5	209.2	209.2	209.9
72.5°	181.6	181.0	180.3	180.3	181.6
75°	153.3	152.7	151.4	151.4	152.7
77.5°	127.6	124.4	123.8	125.0	123.2
80°	101.8	97.4	96.8	96.1	96.1
82.5°	71.6	69.7	70.4	69.7	71.0
85°	45.2	44.6	44.0	44.0	44.6
87.5°	21.4	20.1	20.1	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)