

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: P292869

Luminaire Tested: **22GR-LD5-28-FGW080-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292869
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-LD5-28-FGW080-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2253.0 lumens
Efficiency: N/A
Efficacy: 99.7 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

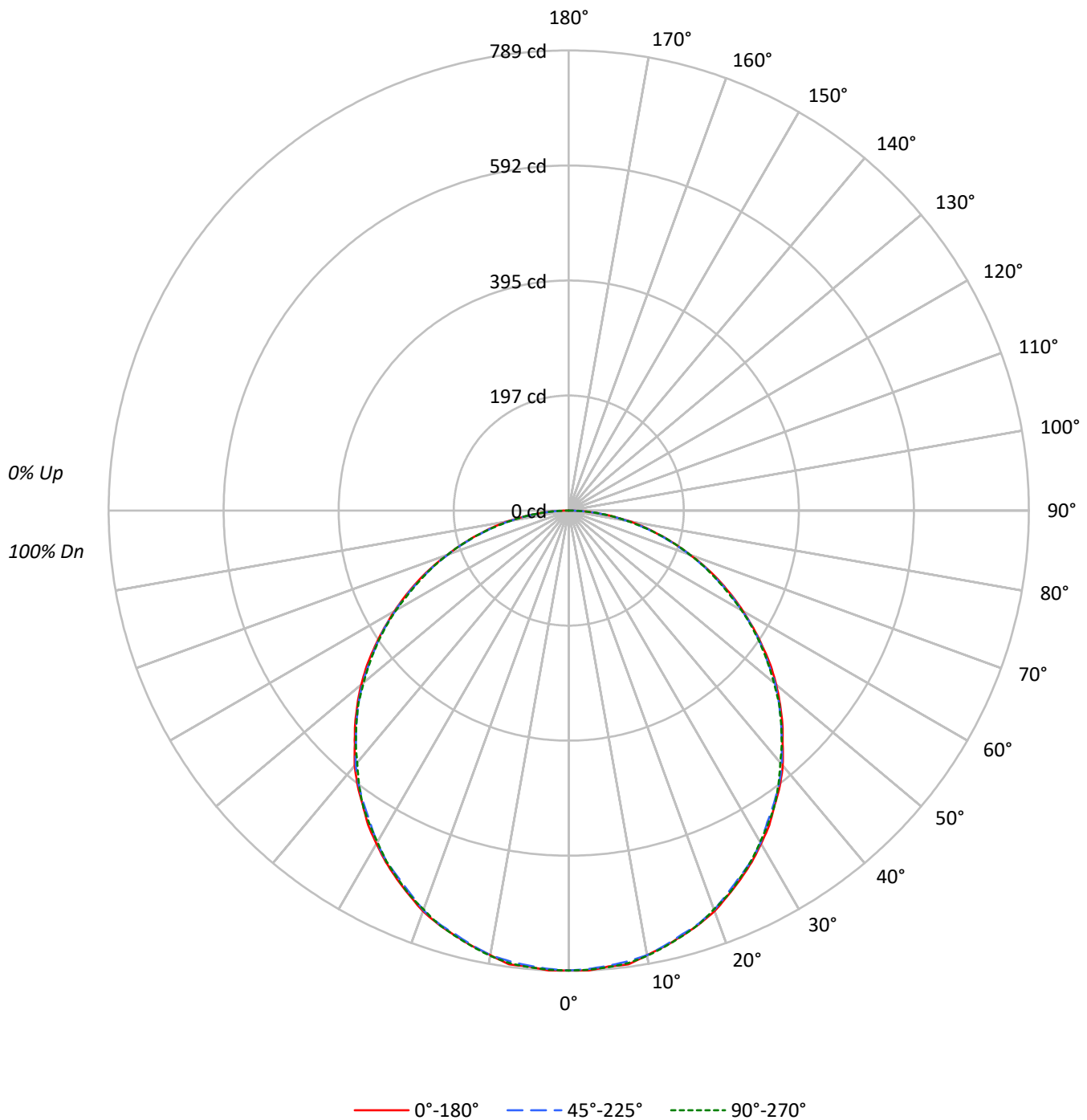
Input Watts (W): 22.599
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	85	79	74		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2122	2122	2122
5°	2119	2116	2123
10°	2115	2115	2119
15°	2101	2096	2103
20°	2093	2088	2084
25°	2070	2059	2064
30°	2050	2043	2039
35°	2023	2015	2023
40°	2005	1996	1982
45°	1971	1959	1959
50°	1944	1933	1922
55°	1902	1890	1887
60°	1858	1848	1841
65°	1812	1791	1782
70°	1739	1733	1739
75°	1678	1657	1672
80°	1661	1579	1568
85°	1470	1430	1451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	3.3
10°-20°	212.9	9.4
20°-30°	320.5	14.2
30°-40°	384.6	17.1
40°-50°	398.0	17.7
50°-60°	360.6	16.0
60°-70°	279.6	12.4
70°-80°	169.7	7.5
80°-90°	52.5	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°	608.0	27.0
0°-40°	992.6	44.1
0°-60°	1751.2	77.7
0°-90°	2253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	785	785	783	785	786	75
15°	754	754	752	756	755	213
25°	697	696	693	696	695	321
35°	616	616	613	614	616	386
45°	518	517	515	515	515	400
55°	406	405	403	402	402	363
65°	284	284	281	282	280	281
75°	161	161	159	159	161	172
85°	48	47	46	46	47	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	788.6	788.6	788.6	788.6	788.6
2.5°	789.2	785.9	786.6	787.9	787.9
5°	784.6	784.6	783.3	785.3	785.9
7.5°	784.6	781.3	779.3	781.3	782.6
10°	774.0	772.7	774.0	773.4	775.3
12.5°	764.8	763.4	763.4	765.4	765.4
15°	754.2	754.2	752.2	755.5	754.8
17.5°	743.6	743.6	742.3	742.3	743.6
20°	731.0	727.7	729.0	728.4	727.7
22.5°	713.8	711.8	710.5	712.5	713.2
25°	697.3	696.0	693.3	696.0	695.3
27.5°	679.4	678.1	677.4	676.1	677.4
30°	659.6	658.2	657.6	656.3	656.3
32.5°	639.7	637.1	633.8	637.1	636.4
35°	615.9	615.9	613.3	613.9	615.9
37.5°	594.7	593.4	592.1	590.1	590.8
40°	570.9	568.9	568.3	567.0	564.3
42.5°	543.1	543.1	540.5	541.2	540.5
45°	518.0	517.3	514.7	514.7	514.7
47.5°	491.5	490.9	488.9	487.6	488.9
50°	464.4	461.8	461.8	459.8	459.1
52.5°	436.0	434.0	431.3	432.0	430.7
55°	405.5	404.9	402.9	402.2	402.2
57.5°	375.1	375.8	374.4	371.8	372.5
60°	345.3	344.7	343.3	342.0	342.0
62.5°	314.9	314.9	312.3	312.3	309.6
65°	284.5	284.5	281.2	282.5	279.8
67.5°	254.0	253.4	251.4	250.7	251.4
70°	221.0	221.6	220.3	220.3	221.0
72.5°	191.2	190.5	189.9	189.9	191.2
75°	161.4	160.8	159.4	159.4	160.8
77.5°	134.3	131.0	130.3	131.6	129.7
80°	107.2	102.5	101.9	101.2	101.2
82.5°	75.4	73.4	74.1	73.4	74.8
85°	47.6	47.0	46.3	46.3	47.0
87.5°	22.5	21.2	21.2	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)