

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: P291701

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-FGW080-UNV-L92765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2266.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

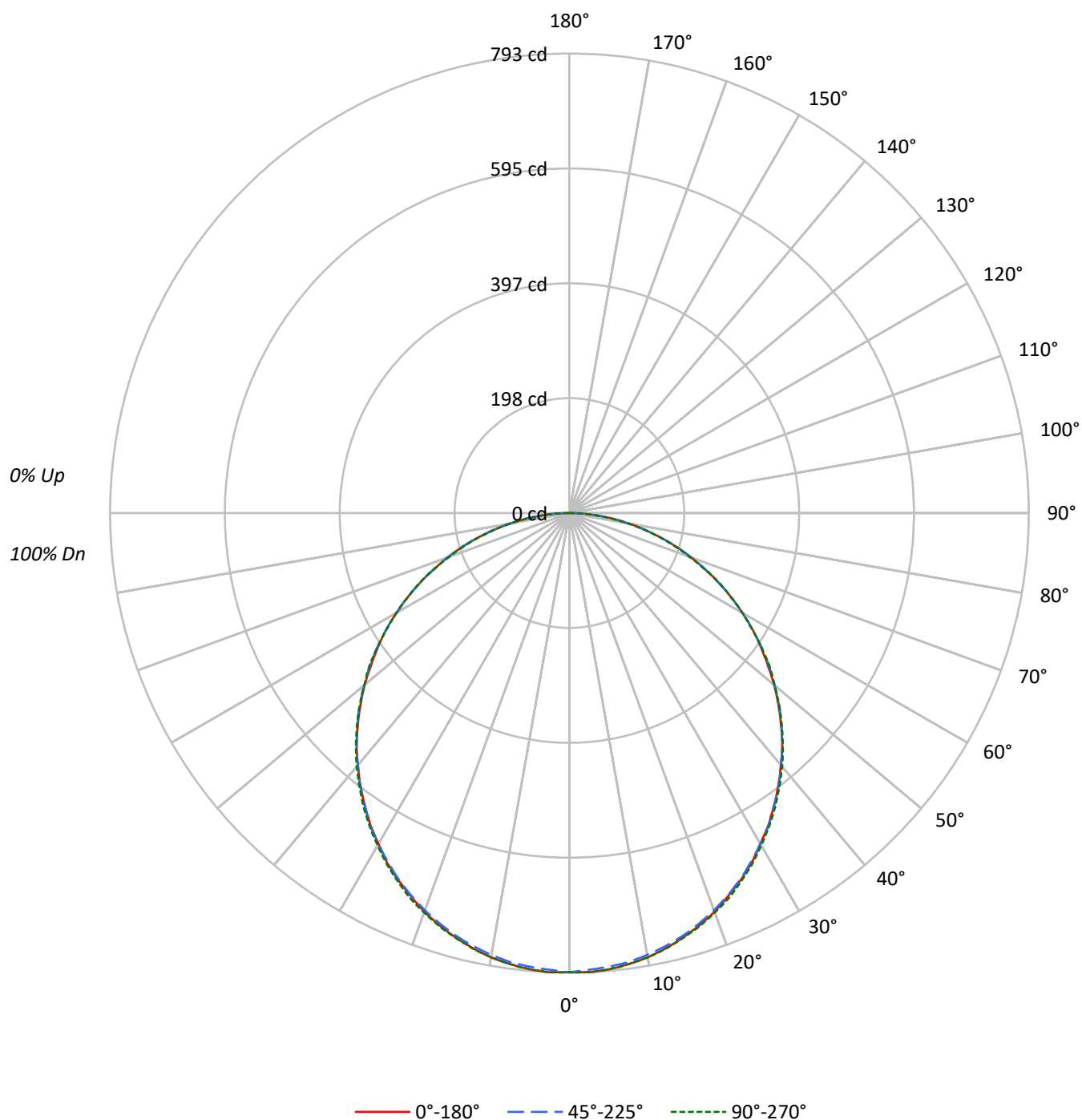
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	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	40	68	55	47	40	53	46	40		52	45	40		50
7	64	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°	2133	2133	2133
5°	2135	2123	2135
10°	2128	2116	2128
15°	2113	2105	2115
20°	2097	2089	2101
25°	2075	2071	2082
30°	2048	2048	2057
35°	2023	2025	2034
40°	1995	1997	2008
45°	1966	1971	1974
50°	1932	1938	1935
55°	1893	1903	1900
60°	1856	1856	1856
65°	1813	1813	1822
70°	1755	1755	1738
75°	1695	1687	1679
80°	1616	1605	1595
85°	1522	1497	1454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	3.3
10°-20°	213.9	9.4
20°-30°	322.3	14.2
30°-40°	386.2	17.0
40°-50°	399.4	17.6
50°-60°	362.1	16.0
60°-70°	281.4	12.4
70°-80°	171.9	7.6
80°-90°	53.8	2.4
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°	611.1	27.0
0°-40°	997.3	44.0
0°-60°	1758.9	77.6
0°-90°	2266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	792	792	792	792	792	
5°	790	790	786	790	790	75
15°	758	758	756	759	759	214
25°	699	699	698	702	701	322
35°	616	616	616	619	619	385
45°	516	517	518	519	519	399
55°	404	405	406	406	405	361
65°	285	285	285	283	286	281
75°	163	163	162	162	162	172
85°	49	48	48	47	47	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	792.5	792.5	792.5	792.5	792.5
2.5°	793.2	792.5	788.8	792.5	793.2
5°	790.3	789.6	785.9	789.6	790.3
7.5°	785.2	785.2	781.6	785.2	785.2
10°	778.7	778.0	774.4	778.0	778.7
12.5°	769.3	769.3	765.7	769.3	770.0
15°	758.4	758.4	755.5	759.1	759.1
17.5°	746.1	746.8	743.2	747.6	747.6
20°	732.3	731.6	729.4	733.1	733.8
22.5°	715.7	716.4	714.2	718.6	719.3
25°	699.0	699.0	697.6	701.9	701.2
27.5°	680.9	680.9	678.7	682.4	683.1
30°	659.2	659.9	659.2	662.8	662.1
32.5°	638.9	639.6	639.6	641.1	641.8
35°	615.7	616.4	616.4	619.3	619.3
37.5°	592.5	592.5	593.3	595.4	595.4
40°	567.9	568.6	568.6	570.8	571.5
42.5°	544.0	542.6	543.3	545.5	545.5
45°	516.5	517.2	517.9	518.7	518.7
47.5°	489.0	490.4	491.1	491.9	491.1
50°	461.4	462.9	462.9	462.2	462.2
52.5°	431.7	435.3	434.6	434.6	436.1
55°	403.5	404.9	405.6	405.6	404.9
57.5°	375.2	376.7	375.2	376.0	374.5
60°	344.8	345.5	344.8	344.8	344.8
62.5°	315.1	315.8	314.4	314.4	314.4
65°	284.7	284.7	284.7	283.2	286.1
67.5°	252.8	254.3	254.3	255.0	252.1
70°	223.1	223.8	223.1	222.4	220.9
72.5°	193.4	194.1	194.9	192.0	191.2
75°	163.0	163.0	162.3	161.5	161.5
77.5°	133.3	133.3	133.3	131.8	131.8
80°	104.3	105.0	103.6	103.6	102.9
82.5°	76.1	76.1	76.1	75.3	73.9
85°	49.3	47.8	48.5	47.1	47.1
87.5°	22.5	22.5	22.5	21.0	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)