

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: P291683

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291683
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-LD5-24-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: 1672.0 lumens
Efficiency: N/A
Efficacy: 89.9 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

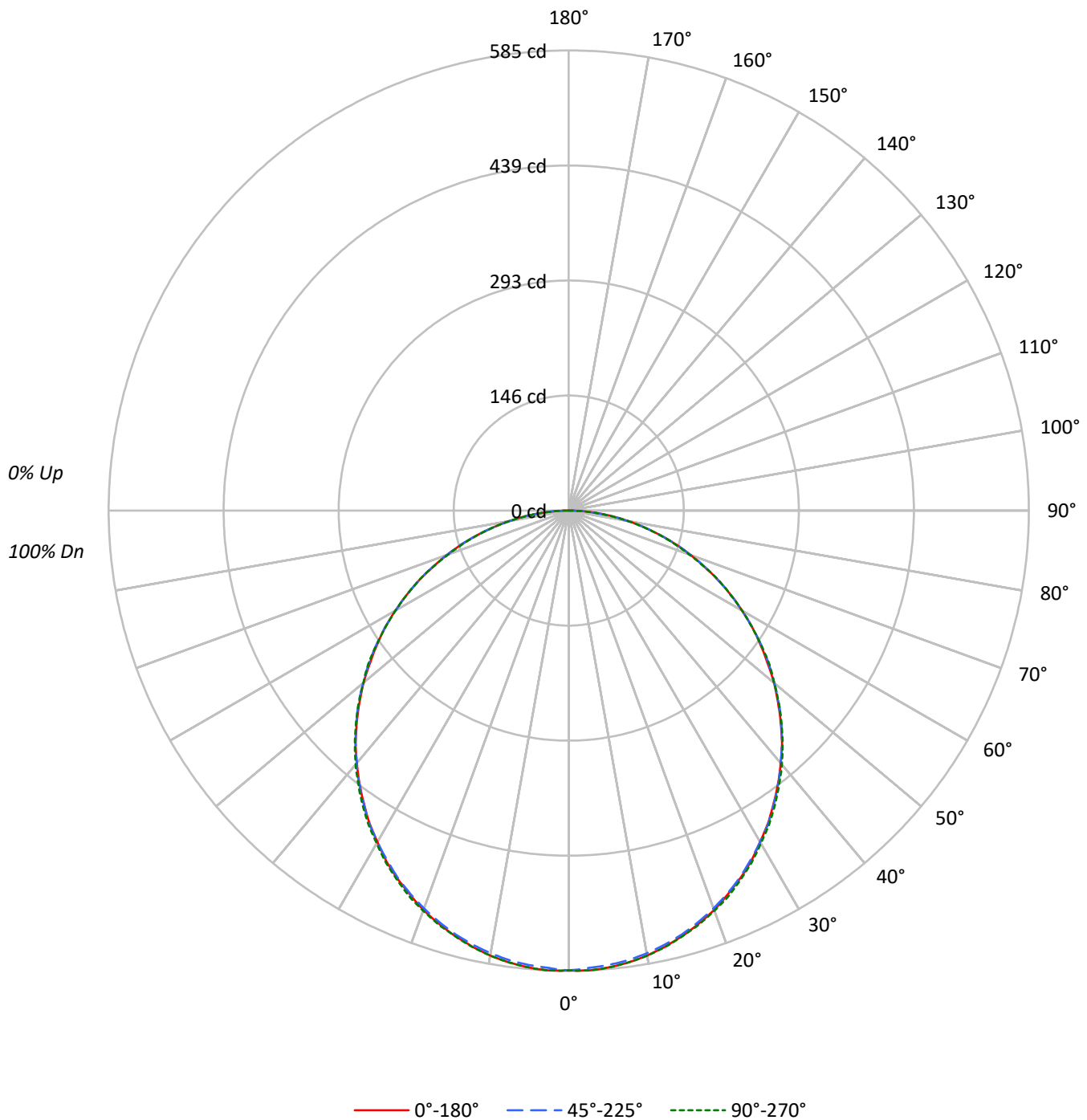
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	93		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	40	68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1573	1573	1573
5°	1575	1566	1575
10°	1570	1561	1570
15°	1559	1553	1560
20°	1548	1541	1550
25°	1531	1528	1536
30°	1511	1511	1518
35°	1492	1494	1501
40°	1472	1474	1481
45°	1450	1455	1456
50°	1425	1430	1428
55°	1397	1404	1402
60°	1369	1369	1369
65°	1338	1338	1344
70°	1295	1295	1282
75°	1251	1245	1239
80°	1193	1184	1176
85°	1121	1105	1071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	3.3
10°-20°	157.8	9.4
20°-30°	237.8	14.2
30°-40°	285.0	17.0
40°-50°	294.7	17.6
50°-60°	267.2	16.0
60°-70°	207.7	12.4
70°-80°	126.8	7.6
80°-90°	39.7	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°	450.9	27.0
0°-40°	735.9	44.0
0°-60°	1297.8	77.6
0°-90°	1672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1672.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	585	585	585	585	585	
5°	583	583	580	583	583	55
15°	560	560	558	560	560	158
25°	516	516	515	518	517	238
35°	454	455	455	457	457	284
45°	381	382	382	383	383	294
55°	298	299	299	299	299	266
65°	210	210	210	209	211	208
75°	120	120	120	119	119	127
85°	36	35	36	35	35	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	584.7	584.7	584.7	584.7	584.7
2.5°	585.3	584.7	582.1	584.7	585.3
5°	583.1	582.6	579.9	582.6	583.1
7.5°	579.4	579.4	576.7	579.4	579.4
10°	574.6	574.0	571.4	574.0	574.6
12.5°	567.6	567.6	565.0	567.6	568.2
15°	559.6	559.6	557.5	560.1	560.1
17.5°	550.5	551.1	548.4	551.6	551.6
20°	540.4	539.8	538.2	540.9	541.4
22.5°	528.1	528.6	527.0	530.2	530.7
25°	515.8	515.8	514.7	517.9	517.4
27.5°	502.4	502.4	500.8	503.5	504.0
30°	486.4	486.9	486.4	489.1	488.5
32.5°	471.4	472.0	472.0	473.0	473.6
35°	454.3	454.9	454.9	457.0	457.0
37.5°	437.2	437.2	437.7	439.4	439.4
40°	419.0	419.6	419.6	421.2	421.7
42.5°	401.4	400.3	400.9	402.5	402.5
45°	381.1	381.6	382.2	382.7	382.7
47.5°	360.8	361.8	362.4	362.9	362.4
50°	340.5	341.5	341.5	341.0	341.0
52.5°	318.6	321.2	320.7	320.7	321.8
55°	297.7	298.8	299.3	299.3	298.8
57.5°	276.9	277.9	276.9	277.4	276.3
60°	254.4	255.0	254.4	254.4	254.4
62.5°	232.5	233.0	232.0	232.0	232.0
65°	210.1	210.1	210.1	209.0	211.1
67.5°	186.5	187.6	187.6	188.1	186.0
70°	164.6	165.2	164.6	164.1	163.0
72.5°	142.7	143.2	143.8	141.6	141.1
75°	120.3	120.3	119.7	119.2	119.2
77.5°	98.3	98.3	98.3	97.3	97.3
80°	77.0	77.5	76.4	76.4	75.9
82.5°	56.1	56.1	56.1	55.6	54.5
85°	36.3	35.3	35.8	34.7	34.7
87.5°	16.6	16.6	16.6	15.5	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)