

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: P476378

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476378
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-FGW080-UNV-L850-CD1-U
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2447.6 lumens
Efficiency: N/A
Efficacy: 105.0 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

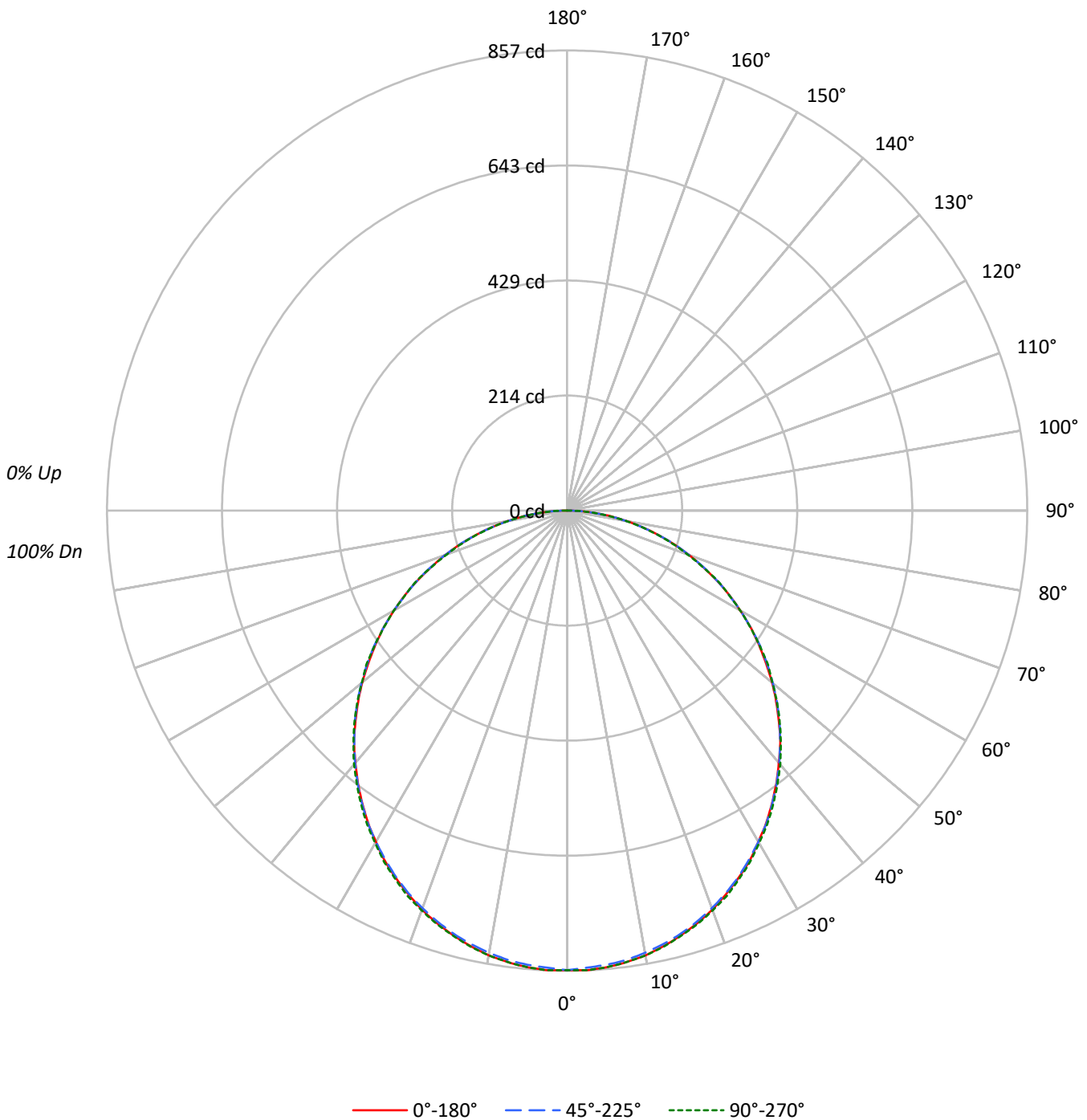
Input Watts (W): 23.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	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	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	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°	2303	2303	2303
5°	2306	2293	2306
10°	2298	2285	2298
15°	2282	2274	2284
20°	2265	2257	2269
25°	2242	2237	2249
30°	2213	2213	2222
35°	2185	2188	2197
40°	2155	2158	2168
45°	2123	2129	2132
50°	2087	2093	2090
55°	2045	2056	2052
60°	2004	2004	2004
65°	1959	1959	1968
70°	1896	1896	1877
75°	1830	1822	1813
80°	1748	1736	1723
85°	1639	1621	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	3.3
10°-20°	231.0	9.4
20°-30°	348.1	14.2
30°-40°	417.2	17.0
40°-50°	431.4	17.6
50°-60°	391.2	16.0
60°-70°	304.0	12.4
70°-80°	185.7	7.6
80°-90°	58.1	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°	660.1	27.0
0°-40°	1077.2	44.0
0°-60°	1899.8	77.6
0°-90°	2447.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2447.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	854	853	849	853	854	81
15°	819	819	816	820	820	231
25°	755	755	754	758	757	348
35°	665	666	666	669	669	416
45°	558	559	560	560	560	430
55°	436	437	438	438	437	390
65°	308	308	308	306	309	304
75°	176	176	175	174	174	186
85°	53	52	52	51	51	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	855.9	855.9	855.9	855.9	855.9
2.5°	856.7	855.9	852.0	855.9	856.7
5°	853.6	852.8	849.0	852.8	853.6
7.5°	848.2	848.2	844.3	848.2	848.2
10°	841.1	840.3	836.3	840.3	841.1
12.5°	831.0	831.0	827.0	831.0	831.8
15°	819.1	819.1	816.1	819.9	819.9
17.5°	805.8	806.6	802.8	807.4	807.4
20°	790.9	790.1	788.0	791.7	792.5
22.5°	773.1	773.9	771.5	776.1	776.9
25°	755.1	755.1	753.5	758.2	757.4
27.5°	735.5	735.5	733.1	737.0	737.8
30°	712.1	712.9	712.1	715.8	715.0
32.5°	690.1	690.9	690.9	692.4	693.2
35°	665.1	665.9	665.9	668.9	668.9
37.5°	639.9	639.9	640.7	643.1	643.1
40°	613.4	614.2	614.2	616.5	617.3
42.5°	587.6	586.0	586.8	589.2	589.2
45°	557.9	558.7	559.5	560.3	560.3
47.5°	528.2	529.7	530.5	531.3	530.5
50°	498.4	500.0	500.0	499.2	499.2
52.5°	466.3	470.3	469.5	469.5	471.1
55°	435.8	437.4	438.2	438.2	437.4
57.5°	405.3	406.9	405.3	406.1	404.5
60°	372.4	373.2	372.4	372.4	372.4
62.5°	340.3	341.1	339.5	339.5	339.5
65°	307.6	307.6	307.6	306.0	309.0
67.5°	273.1	274.7	274.7	275.5	272.3
70°	241.0	241.8	241.0	240.2	238.6
72.5°	208.9	209.7	210.5	207.3	206.5
75°	176.0	176.0	175.2	174.4	174.4
77.5°	143.9	143.9	143.9	142.5	142.5
80°	112.8	113.4	112.0	112.0	111.2
82.5°	82.2	82.2	82.2	81.5	79.9
85°	53.1	51.7	52.5	50.9	50.9
87.5°	24.2	24.2	24.2	22.6	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)