

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: P476369

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476369
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-L840-CD1-U
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2445.2 lumens
Efficiency: N/A
Efficacy: 104.9 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

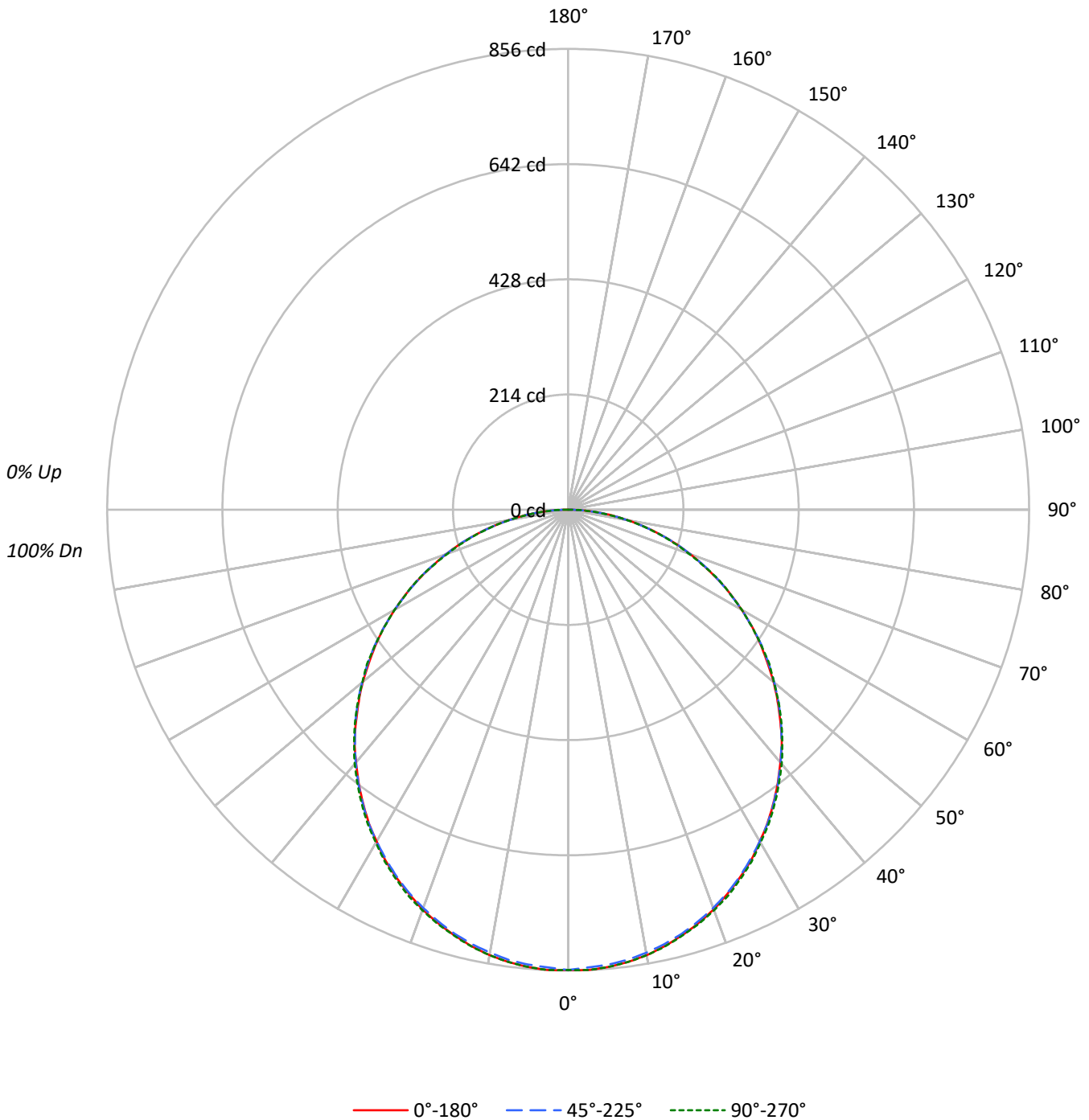
Input Watts (W): 23.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2301	2301	2301
5°	2303	2291	2303
10°	2296	2283	2296
15°	2280	2271	2282
20°	2263	2254	2267
25°	2240	2235	2247
30°	2211	2211	2220
35°	2183	2185	2195
40°	2153	2155	2166
45°	2121	2127	2130
50°	2084	2091	2088
55°	2043	2054	2050
60°	2002	2002	2002
65°	1957	1957	1966
70°	1895	1895	1876
75°	1828	1820	1811
80°	1746	1734	1722
85°	1639	1621	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	3.3
10°-20°	230.8	9.4
20°-30°	347.8	14.2
30°-40°	416.8	17.0
40°-50°	431.0	17.6
50°-60°	390.8	16.0
60°-70°	303.7	12.4
70°-80°	185.5	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°	659.4	27.0
0°-40°	1076.2	44.0
0°-60°	1897.9	77.6
0°-90°	2445.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2445.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	855	855	855	855	855	
5°	853	852	848	852	853	81
15°	818	818	815	819	819	231
25°	754	754	753	758	757	348
35°	664	665	665	668	668	416
45°	557	558	559	560	560	430
55°	435	437	438	438	437	389
65°	307	307	307	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°	855.1	855.1	855.1	855.1	855.1
2.5°	855.9	855.1	851.1	855.1	855.9
5°	852.7	851.9	848.2	851.9	852.7
7.5°	847.4	847.4	843.4	847.4	847.4
10°	840.3	839.5	835.5	839.5	840.3
12.5°	830.2	830.2	826.2	830.2	831.0
15°	818.3	818.3	815.3	819.1	819.1
17.5°	805.0	805.8	802.0	806.6	806.6
20°	790.2	789.4	787.2	791.0	791.8
22.5°	772.3	773.1	770.8	775.3	776.1
25°	754.3	754.3	752.7	757.5	756.7
27.5°	734.7	734.7	732.4	736.3	737.1
30°	711.4	712.2	711.4	715.1	714.3
32.5°	689.4	690.2	690.2	691.8	692.6
35°	664.4	665.2	665.2	668.2	668.2
37.5°	639.3	639.3	640.1	642.5	642.5
40°	612.8	613.6	613.6	615.9	616.7
42.5°	587.0	585.4	586.2	588.6	588.6
45°	557.3	558.1	558.9	559.7	559.7
47.5°	527.6	529.2	530.0	530.8	530.0
50°	497.9	499.5	499.5	498.7	498.7
52.5°	465.9	469.8	469.0	469.0	470.6
55°	435.4	437.0	437.7	437.7	437.0
57.5°	404.9	406.5	404.9	405.7	404.1
60°	372.0	372.8	372.0	372.0	372.0
62.5°	339.9	340.7	339.2	339.2	339.2
65°	307.3	307.3	307.3	305.7	308.7
67.5°	272.8	274.4	274.4	275.2	272.0
70°	240.8	241.5	240.8	240.0	238.4
72.5°	208.7	209.5	210.3	207.1	206.3
75°	175.8	175.8	175.0	174.2	174.2
77.5°	143.7	143.7	143.7	142.4	142.4
80°	112.7	113.2	111.9	111.9	111.1
82.5°	82.2	82.2	82.2	81.4	79.8
85°	53.1	51.7	52.5	50.9	50.9
87.5°	24.2	24.2	24.2	22.6	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)