

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: P476135

Luminaire Tested: **22GR-LD5-28-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476135
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-FGW080-UNV-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ FGW080 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2414.0 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

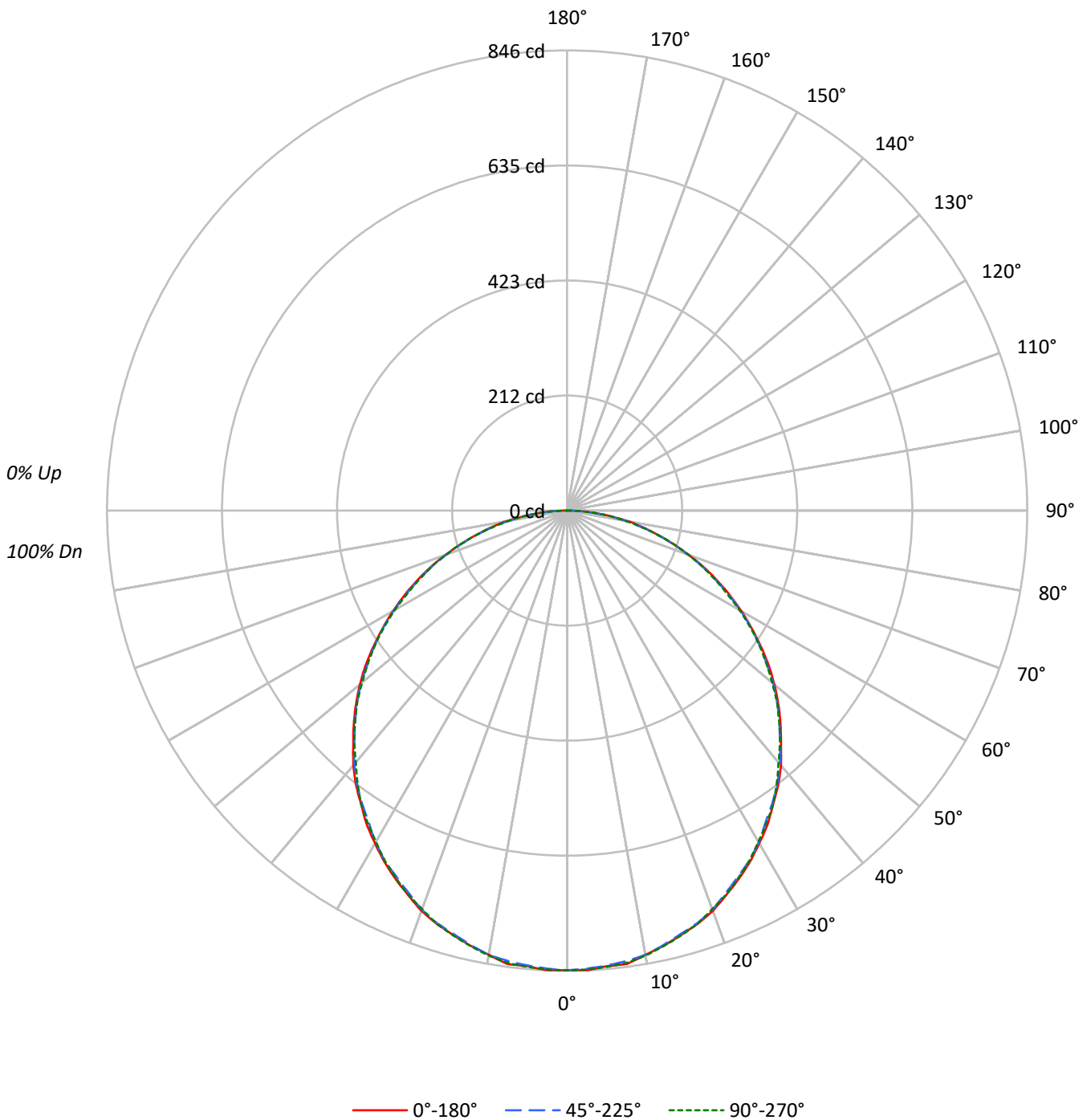
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2274	2274	2274
5°	2271	2267	2275
10°	2266	2266	2270
15°	2251	2245	2253
20°	2243	2237	2233
25°	2218	2205	2212
30°	2196	2189	2185
35°	2168	2159	2168
40°	2149	2139	2124
45°	2112	2098	2098
50°	2083	2071	2059
55°	2039	2025	2022
60°	1991	1980	1972
65°	1940	1918	1909
70°	1863	1858	1863
75°	1798	1776	1790
80°	1779	1691	1680
85°	1578	1535	1556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	3.3
10°-20°	228.1	9.4
20°-30°	343.4	14.2
30°-40°	412.1	17.1
40°-50°	426.4	17.7
50°-60°	386.4	16.0
60°-70°	299.5	12.4
70°-80°	181.8	7.5
80°-90°	56.3	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°	651.4	27.0
0°-40°	1063.5	44.1
0°-60°	1876.4	77.7
0°-90°	2414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	845	845	845	845	845	
5°	841	841	839	841	842	80
15°	808	808	806	810	809	228
25°	747	746	743	746	745	344
35°	660	660	657	658	660	414
45°	555	554	551	551	551	428
55°	435	434	432	431	431	389
65°	305	305	301	303	300	301
75°	173	172	171	171	172	184
85°	51	50	50	50	50	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	845.0	845.0	845.0	845.0	845.0
2.5°	845.7	842.2	842.9	844.3	844.3
5°	840.7	840.7	839.3	841.4	842.2
7.5°	840.7	837.2	835.1	837.2	838.6
10°	829.4	828.0	829.4	828.7	830.8
12.5°	819.4	818.0	818.0	820.2	820.2
15°	808.1	808.1	806.0	809.5	808.8
17.5°	796.7	796.7	795.3	795.3	796.7
20°	783.3	779.7	781.1	780.4	779.7
22.5°	764.8	762.7	761.3	763.4	764.1
25°	747.1	745.7	742.8	745.7	745.0
27.5°	727.9	726.5	725.8	724.4	725.8
30°	706.6	705.2	704.5	703.1	703.1
32.5°	685.4	682.5	679.0	682.5	681.8
35°	660.0	660.0	657.2	657.9	660.0
37.5°	637.3	635.9	634.5	632.3	633.0
40°	611.7	609.6	608.9	607.5	604.7
42.5°	581.9	581.9	579.1	579.8	579.1
45°	555.0	554.3	551.4	551.4	551.4
47.5°	526.6	525.9	523.8	522.4	523.8
50°	497.5	494.7	494.7	492.6	491.8
52.5°	467.2	465.1	462.2	462.9	461.5
55°	434.6	433.8	431.7	431.0	431.0
57.5°	401.9	402.6	401.2	398.4	399.1
60°	370.0	369.3	367.9	366.4	366.4
62.5°	337.4	337.4	334.5	334.5	331.7
65°	304.7	304.7	301.2	302.6	299.8
67.5°	272.3	271.6	269.4	268.7	269.4
70°	236.8	237.5	236.1	236.1	236.8
72.5°	204.9	204.2	203.4	203.4	204.9
75°	172.9	172.2	170.8	170.8	172.2
77.5°	143.8	140.3	139.6	141.0	138.9
80°	114.8	109.8	109.1	108.4	108.4
82.5°	80.9	78.8	79.5	78.8	80.2
85°	51.1	50.4	49.7	49.7	50.4
87.5°	24.1	22.7	22.7	22.0	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)