

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: P476352

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476352
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-FGW080-UNV-L830-CD1-U
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2667.5 lumens
Efficiency: N/A
Efficacy: 106.7 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

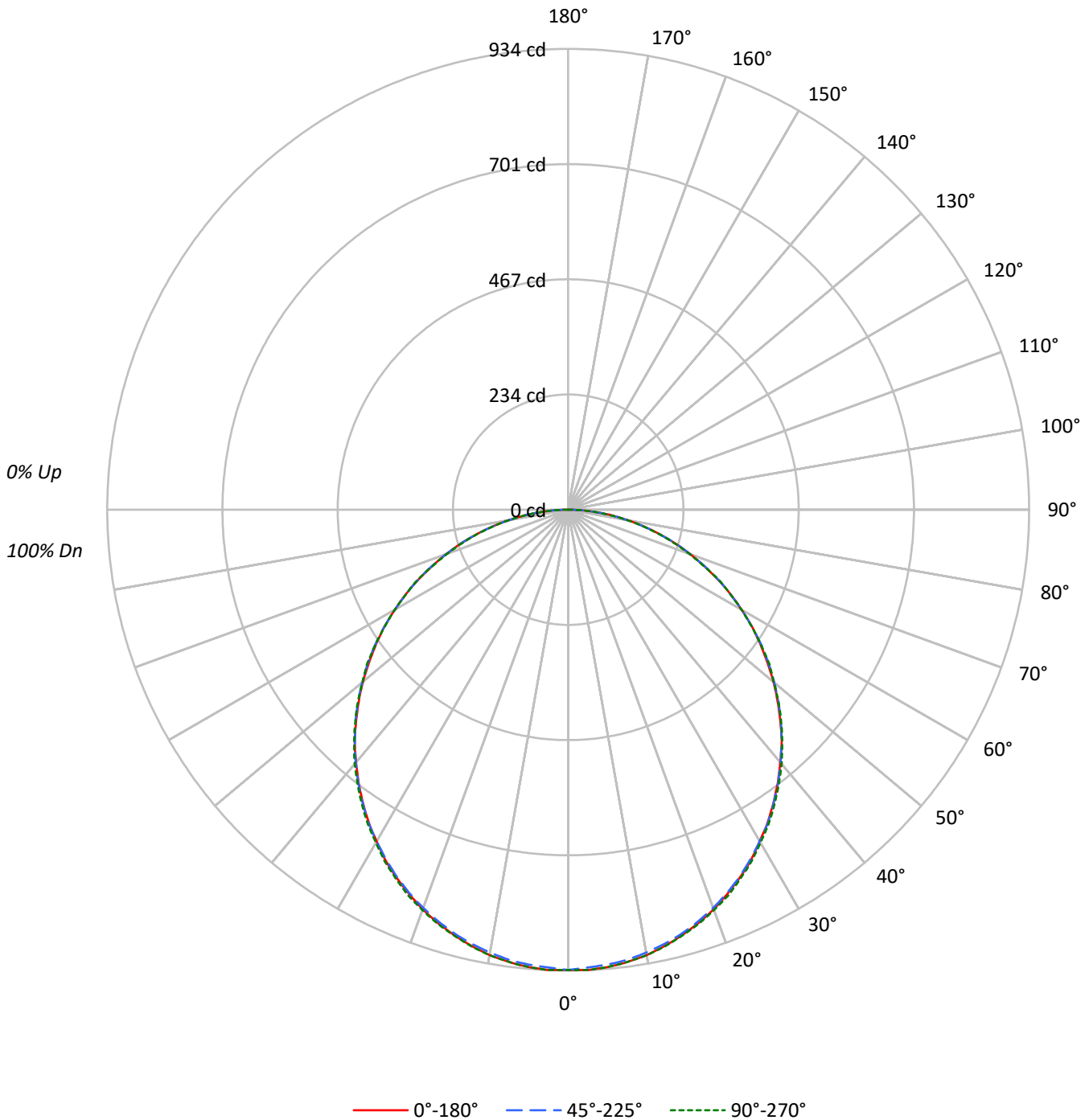
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	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	42					42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	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°	2510	2510	2510
5°	2513	2499	2513
10°	2505	2491	2505
15°	2487	2478	2489
20°	2468	2459	2473
25°	2443	2438	2451
30°	2411	2411	2421
35°	2381	2384	2395
40°	2348	2351	2363
45°	2314	2320	2324
50°	2274	2281	2278
55°	2228	2240	2236
60°	2184	2184	2184
65°	2134	2134	2144
70°	2066	2066	2046
75°	1994	1985	1976
80°	1905	1891	1878
85°	1788	1766	1714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	3.3
10°-20°	251.7	9.4
20°-30°	379.4	14.2
30°-40°	454.6	17.0
40°-50°	470.2	17.6
50°-60°	426.3	16.0
60°-70°	331.3	12.4
70°-80°	202.3	7.6
80°-90°	63.4	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°	719.4	27.0
0°-40°	1174.0	44.0
0°-60°	2070.5	77.6
0°-90°	2667.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2667.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	930	929	925	929	930	88
15°	893	893	889	894	894	252
25°	823	823	821	826	826	379
35°	725	726	726	729	729	454
45°	608	609	610	611	611	469
55°	475	477	478	478	477	425
65°	335	335	335	334	337	331
75°	192	192	191	190	190	203
85°	58	56	57	56	56	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.9	932.9	932.9	932.9	932.9
2.5°	933.7	932.9	928.5	932.9	933.7
5°	930.3	929.4	925.3	929.4	930.3
7.5°	924.4	924.4	920.1	924.4	924.4
10°	916.7	915.8	911.5	915.8	916.7
12.5°	905.6	905.6	901.3	905.6	906.5
15°	892.7	892.7	889.4	893.5	893.5
17.5°	878.2	879.1	875.0	879.9	879.9
20°	862.0	861.1	858.8	862.9	863.7
22.5°	842.6	843.4	840.8	845.8	846.7
25°	822.9	822.9	821.2	826.4	825.5
27.5°	801.5	801.5	798.9	803.3	804.1
30°	776.0	776.9	776.0	780.1	779.3
32.5°	752.1	752.9	752.9	754.7	755.5
35°	724.9	725.7	725.7	729.0	729.0
37.5°	697.4	697.4	698.3	700.9	700.9
40°	668.5	669.3	669.3	671.9	672.8
42.5°	640.4	638.7	639.5	642.1	642.1
45°	608.0	608.9	609.7	610.6	610.6
47.5°	575.6	577.3	578.2	579.1	578.2
50°	543.2	544.9	544.9	544.1	544.1
52.5°	508.2	512.5	511.7	511.7	513.4
55°	475.0	476.7	477.5	477.5	476.7
57.5°	441.7	443.4	441.7	442.6	440.8
60°	405.8	406.7	405.8	405.8	405.8
62.5°	370.9	371.7	370.0	370.0	370.0
65°	335.2	335.2	335.2	333.5	336.7
67.5°	297.6	299.4	299.4	300.2	296.8
70°	262.6	263.5	262.6	261.8	260.0
72.5°	227.7	228.5	229.4	225.9	225.1
75°	191.8	191.8	190.9	190.1	190.1
77.5°	156.8	156.8	156.8	155.3	155.3
80°	122.9	123.5	122.0	122.0	121.2
82.5°	89.6	89.6	89.6	88.8	87.0
85°	57.9	56.4	57.2	55.5	55.5
87.5°	26.4	26.4	26.4	24.6	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)