

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: P476143

Luminaire Tested: **22GR-LD5-85-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476143
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-85-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: 7264.1 lumens
Efficiency: N/A
Efficacy: 112.1 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

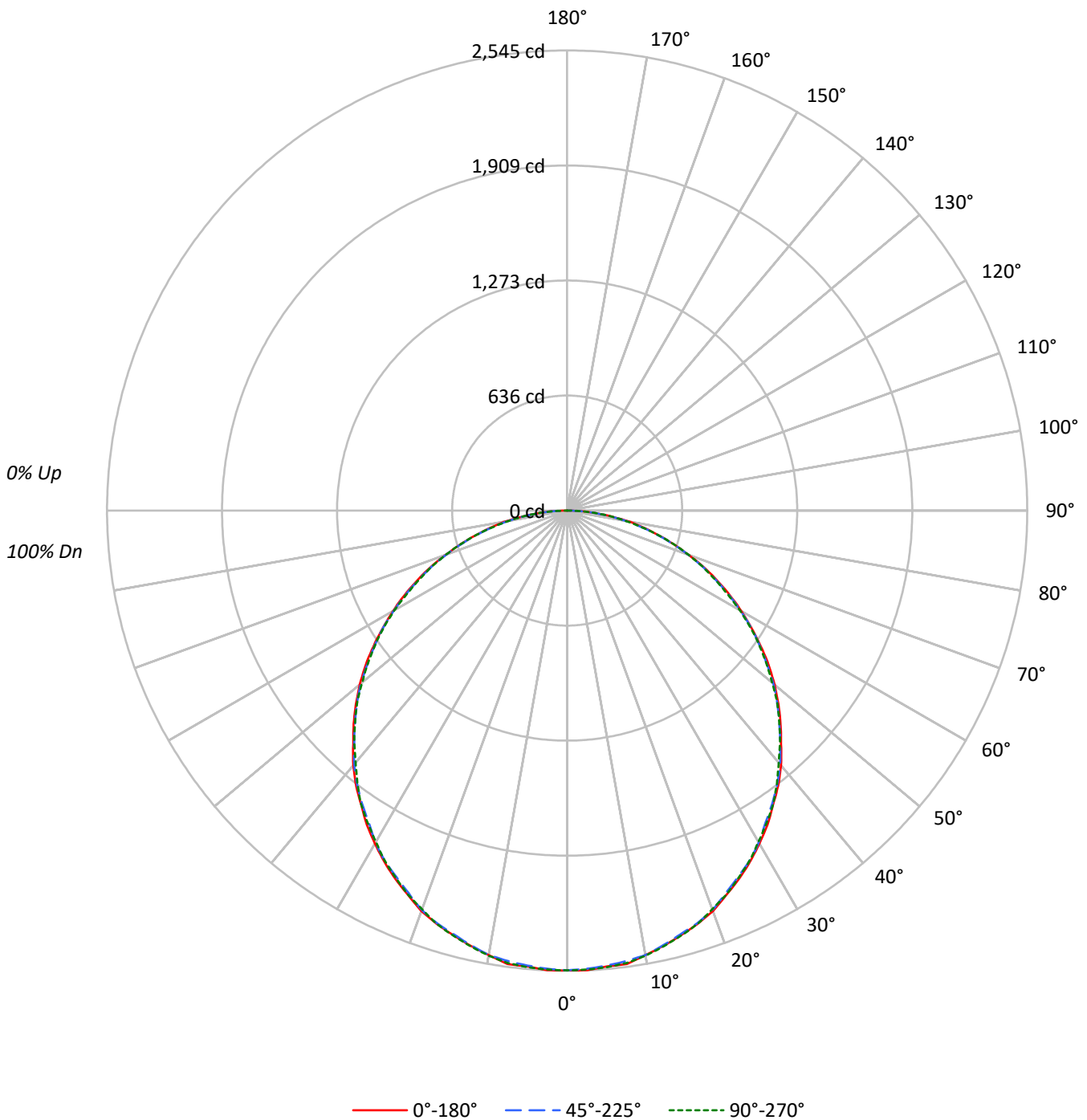
Input Watts (W): 64.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	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	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	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°	6842	6842	6842
5°	6834	6822	6846
10°	6819	6819	6831
15°	6774	6757	6780
20°	6750	6731	6719
25°	6675	6637	6656
30°	6607	6587	6574
35°	6524	6496	6524
40°	6466	6437	6392
45°	6355	6315	6315
50°	6267	6232	6196
55°	6135	6095	6085
60°	5992	5958	5935
65°	5839	5771	5743
70°	5606	5589	5606
75°	5411	5344	5389
80°	5351	5086	5053
85°	4746	4613	4681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.5	3.3
10°-20°	686.3	9.4
20°-30°	1033.3	14.2
30°-40°	1240.1	17.1
40°-50°	1283.1	17.7
50°-60°	1162.8	16.0
60°-70°	901.3	12.4
70°-80°	547.1	7.5
80°-90°	169.4	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°	1960.2	27.0
0°-40°	3200.3	44.1
0°-60°	5646.3	77.7
0°-90°	7264.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7264.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2543	2543	2543	2543	2543	
5°	2530	2530	2526	2532	2534	241
15°	2432	2432	2425	2436	2434	687
25°	2248	2244	2235	2244	2242	1036
35°	1986	1986	1978	1980	1986	1245
45°	1670	1668	1659	1659	1659	1289
55°	1308	1306	1299	1297	1297	1169
65°	917	917	906	910	902	907
75°	520	518	514	514	518	554
85°	154	152	149	149	152	175
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2542.7	2542.7	2542.7	2542.7	2542.7
2.5°	2544.8	2534.2	2536.3	2540.6	2540.6
5°	2529.9	2529.9	2525.6	2532.0	2534.2
7.5°	2529.9	2519.2	2512.8	2519.2	2523.5
10°	2495.7	2491.5	2495.7	2493.6	2500.0
12.5°	2465.8	2461.6	2461.6	2468.0	2468.0
15°	2431.7	2431.7	2425.3	2436.0	2433.8
17.5°	2397.5	2397.5	2393.3	2393.3	2397.5
20°	2357.0	2346.3	2350.6	2348.4	2346.3
22.5°	2301.5	2295.0	2290.8	2297.2	2299.3
25°	2248.1	2243.8	2235.3	2243.8	2241.7
27.5°	2190.4	2186.2	2184.0	2179.8	2184.0
30°	2126.4	2122.1	2120.0	2115.7	2115.7
32.5°	2062.3	2053.8	2043.1	2053.8	2051.7
35°	1986.0	1986.0	1977.5	1979.6	1986.0
37.5°	1917.7	1913.4	1909.2	1902.8	1904.9
40°	1840.8	1834.4	1832.3	1828.0	1819.5
42.5°	1751.2	1751.2	1742.6	1744.8	1742.6
45°	1670.0	1667.9	1659.4	1659.4	1659.4
47.5°	1584.7	1582.5	1576.1	1571.8	1576.1
50°	1497.1	1488.6	1488.6	1482.2	1480.0
52.5°	1405.9	1399.4	1390.9	1393.0	1388.8
55°	1307.6	1305.5	1299.1	1297.0	1297.0
57.5°	1209.4	1211.6	1207.3	1198.8	1200.9
60°	1113.4	1111.2	1107.0	1102.7	1102.7
62.5°	1015.2	1015.2	1006.6	1006.6	998.1
65°	917.0	917.0	906.3	910.5	902.0
67.5°	819.3	817.1	810.7	808.6	810.7
70°	712.5	714.7	710.4	710.4	712.5
72.5°	616.5	614.3	612.2	612.2	616.5
75°	520.4	518.3	514.0	514.0	518.3
77.5°	432.9	422.2	420.0	424.3	417.9
80°	345.3	330.4	328.2	326.1	326.1
82.5°	243.4	237.0	239.1	237.0	241.2
85°	153.7	151.6	149.4	149.4	151.6
87.5°	72.6	68.3	68.3	66.2	66.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)