

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: P475867

Luminaire Tested: **24GR-LD5-34-FGW080-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475867
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-FGW080-UNV-L850-CD1-U
Description: GR 2'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: 2992.7 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

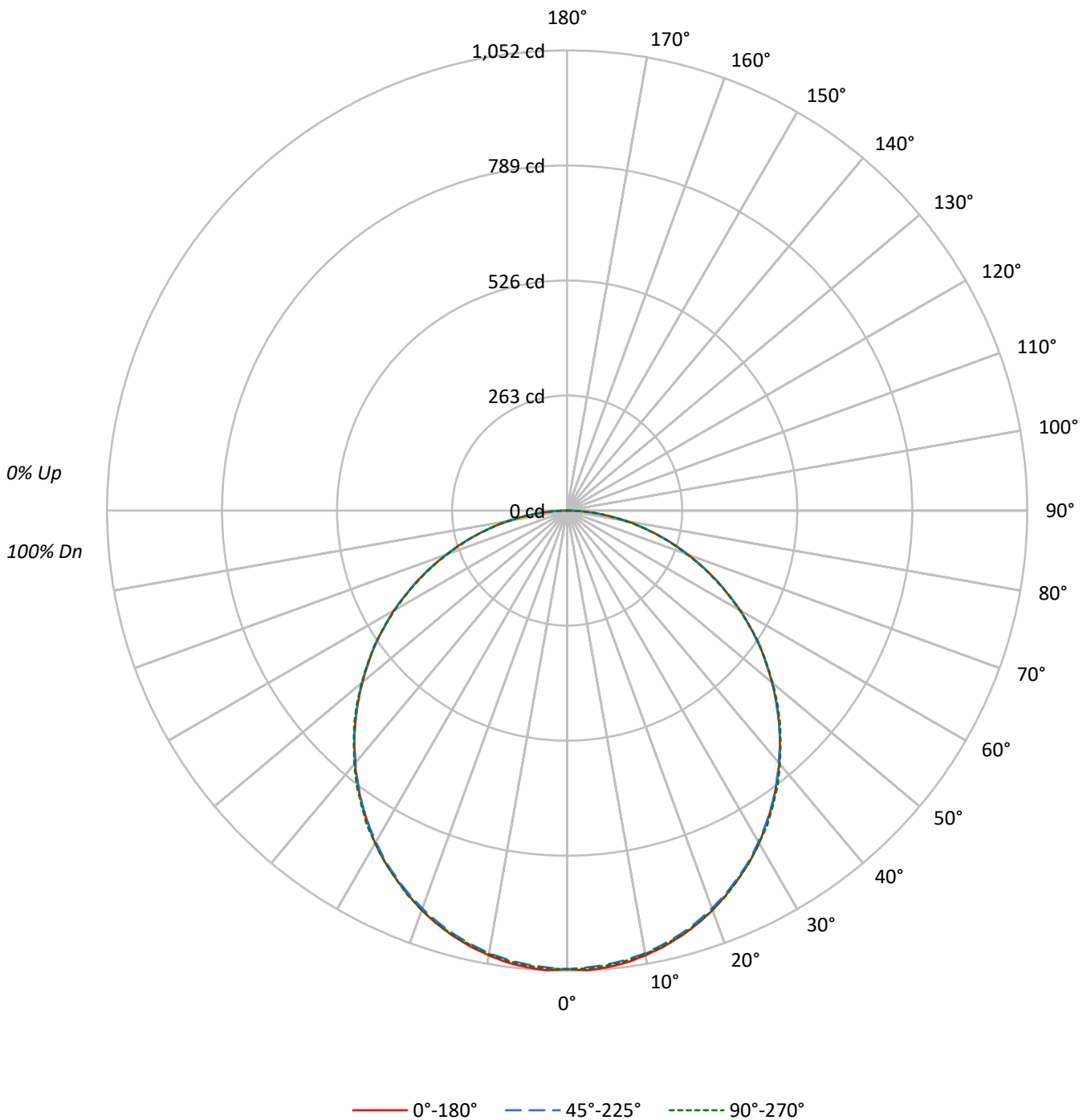
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	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	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	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	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	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°	1410	1410	1410
5°	1416	1407	1410
10°	1410	1403	1406
15°	1403	1396	1400
20°	1392	1386	1391
25°	1377	1373	1378
30°	1364	1359	1364
35°	1345	1342	1347
40°	1325	1322	1329
45°	1304	1304	1310
50°	1279	1283	1283
55°	1261	1256	1260
60°	1232	1231	1223
65°	1197	1196	1188
70°	1155	1153	1146
75°	1111	1107	1109
80°	1060	1039	1044
85°	942	942	951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	3.3
10°-20°	283.2	9.5
20°-30°	426.9	14.3
30°-40°	511.6	17.1
40°-50°	528.5	17.7
50°-60°	478.6	16.0
60°-70°	370.8	12.4
70°-80°	224.9	7.5
80°-90°	69.0	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°	809.2	27.0
0°-40°	1320.8	44.1
0°-60°	2327.9	77.8
0°-90°	2992.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2992.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1048	1048	1048	1048	1048	
5°	1048	1044	1042	1042	1044	100
15°	1007	1004	1002	1003	1005	284
25°	928	926	925	927	928	428
35°	819	816	817	819	820	512
45°	685	684	685	686	688	528
55°	538	534	535	536	537	479
65°	376	374	376	375	373	372
75°	214	214	213	211	213	227
85°	61	62	61	60	62	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1048.2	1048.2	1048.2	1048.2	1048.2
2.5°	1051.9	1048.2	1045.5	1045.5	1047.9
5°	1048.2	1044.1	1041.8	1041.8	1044.1
7.5°	1042.1	1037.7	1035.7	1035.7	1037.7
10°	1032.3	1028.9	1027.2	1027.2	1029.2
12.5°	1020.8	1017.7	1015.7	1016.0	1018.1
15°	1006.9	1003.8	1002.1	1002.8	1004.9
17.5°	990.6	987.6	986.2	987.2	989.6
20°	972.3	968.6	967.9	969.0	971.7
22.5°	950.3	948.0	947.6	949.3	951.7
25°	927.6	925.6	924.9	927.0	928.3
27.5°	904.3	900.5	901.9	902.2	904.3
30°	877.8	874.5	874.5	875.8	877.8
32.5°	847.4	845.3	847.0	848.7	851.8
35°	818.6	815.5	817.2	818.6	820.3
37.5°	786.1	785.4	785.7	787.8	790.5
40°	754.6	752.5	752.5	755.2	756.6
42.5°	720.0	718.3	719.7	721.0	721.7
45°	685.1	683.8	685.1	686.2	688.2
47.5°	647.9	648.2	648.6	649.2	651.3
50°	611.0	612.3	612.7	614.0	612.7
52.5°	572.7	573.0	574.4	574.7	575.1
55°	537.5	534.4	535.4	536.1	537.1
57.5°	496.2	495.1	495.1	496.2	496.8
60°	457.9	455.9	457.6	455.5	454.5
62.5°	415.2	415.9	416.6	416.2	414.5
65°	375.9	373.9	375.6	374.6	373.2
67.5°	334.6	332.9	333.6	333.3	332.9
70°	293.6	293.6	293.0	291.3	291.3
72.5°	255.0	253.0	253.7	251.6	251.6
75°	213.7	213.7	213.0	211.0	213.4
77.5°	175.1	174.1	173.4	172.0	172.0
80°	136.8	134.5	134.1	134.1	134.8
82.5°	99.2	97.5	96.9	96.9	97.2
85°	61.0	62.0	61.0	59.9	61.6
87.5°	28.8	27.4	27.4	28.4	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)