

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: P475852

Luminaire Tested: **24GR-LD5-34-FGW080-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475852
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-L840-CD1-U
Description: GR 2'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: 2989.8 lumens
Efficiency: N/A
Efficacy: 124.6 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

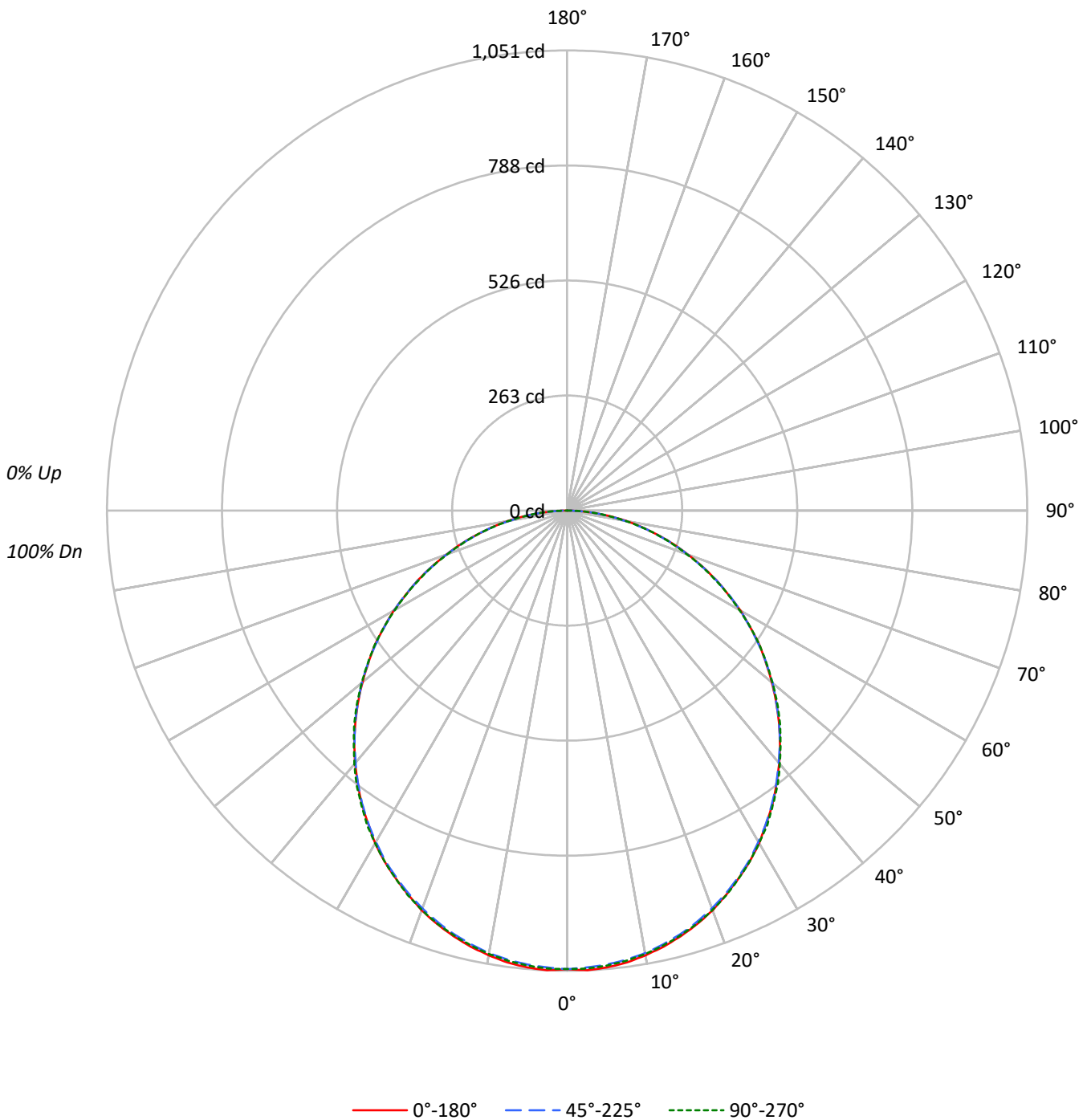
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1409	1409	1409
5°	1414	1406	1409
10°	1409	1402	1405
15°	1401	1395	1398
20°	1391	1385	1390
25°	1376	1372	1377
30°	1363	1357	1363
35°	1343	1341	1346
40°	1324	1320	1328
45°	1302	1302	1308
50°	1278	1281	1281
55°	1260	1255	1259
60°	1231	1230	1222
65°	1196	1195	1187
70°	1154	1151	1145
75°	1110	1106	1108
80°	1059	1038	1044
85°	940	940	951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	3.3
10°-20°	282.9	9.5
20°-30°	426.5	14.3
30°-40°	511.1	17.1
40°-50°	528.0	17.7
50°-60°	478.2	16.0
60°-70°	370.4	12.4
70°-80°	224.7	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°	808.4	27.0
0°-40°	1319.5	44.1
0°-60°	2325.7	77.8
0°-90°	2989.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2989.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	1047	1043	1041	1041	1043	99
15°	1006	1003	1001	1002	1004	284
25°	927	925	924	926	927	427
35°	818	815	816	818	820	511
45°	684	683	684	686	688	528
55°	537	534	535	536	537	478
65°	376	374	375	374	373	371
75°	214	214	213	211	213	226
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°	1047.2	1047.2	1047.2	1047.2	1047.2
2.5°	1050.9	1047.2	1044.5	1044.5	1046.8
5°	1047.2	1043.1	1040.7	1040.7	1043.1
7.5°	1041.1	1036.7	1034.7	1034.7	1036.7
10°	1031.3	1027.9	1026.2	1026.2	1028.2
12.5°	1019.8	1016.7	1014.7	1015.0	1017.1
15°	1005.9	1002.9	1001.2	1001.8	1003.9
17.5°	989.7	986.6	985.3	986.3	988.6
20°	971.4	967.7	967.0	968.0	970.7
22.5°	949.4	947.0	946.7	948.4	950.7
25°	926.7	924.7	924.0	926.0	927.4
27.5°	903.4	899.7	901.0	901.3	903.4
30°	877.0	873.6	873.6	875.0	877.0
32.5°	846.5	844.5	846.2	847.9	850.9
35°	817.8	814.7	816.4	817.8	819.5
37.5°	785.3	784.6	785.0	787.0	789.7
40°	753.8	751.8	751.8	754.5	755.9
42.5°	719.3	717.6	719.0	720.3	721.0
45°	684.5	683.1	684.5	685.5	687.5
47.5°	647.3	647.6	647.9	648.6	650.6
50°	610.4	611.7	612.1	613.4	612.1
52.5°	572.1	572.5	573.8	574.2	574.5
55°	537.0	533.9	534.9	535.6	536.6
57.5°	495.7	494.7	494.7	495.7	496.4
60°	457.4	455.4	457.1	455.1	454.1
62.5°	414.8	415.5	416.2	415.8	414.1
65°	375.6	373.5	375.2	374.2	372.9
67.5°	334.3	332.6	333.3	332.9	332.6
70°	293.3	293.3	292.7	291.0	291.0
72.5°	254.8	252.7	253.4	251.4	251.4
75°	213.5	213.5	212.8	210.8	213.2
77.5°	174.9	173.9	173.2	171.9	171.9
80°	136.7	134.3	134.0	134.0	134.7
82.5°	99.1	97.4	96.8	96.8	97.1
85°	60.9	61.9	60.9	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)