

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: P475838

Luminaire Tested: **24GR-LD5-38-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475838
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-FGW080-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ FGW080 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3240.8 lumens
Efficiency: N/A
Efficacy: 121.8 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

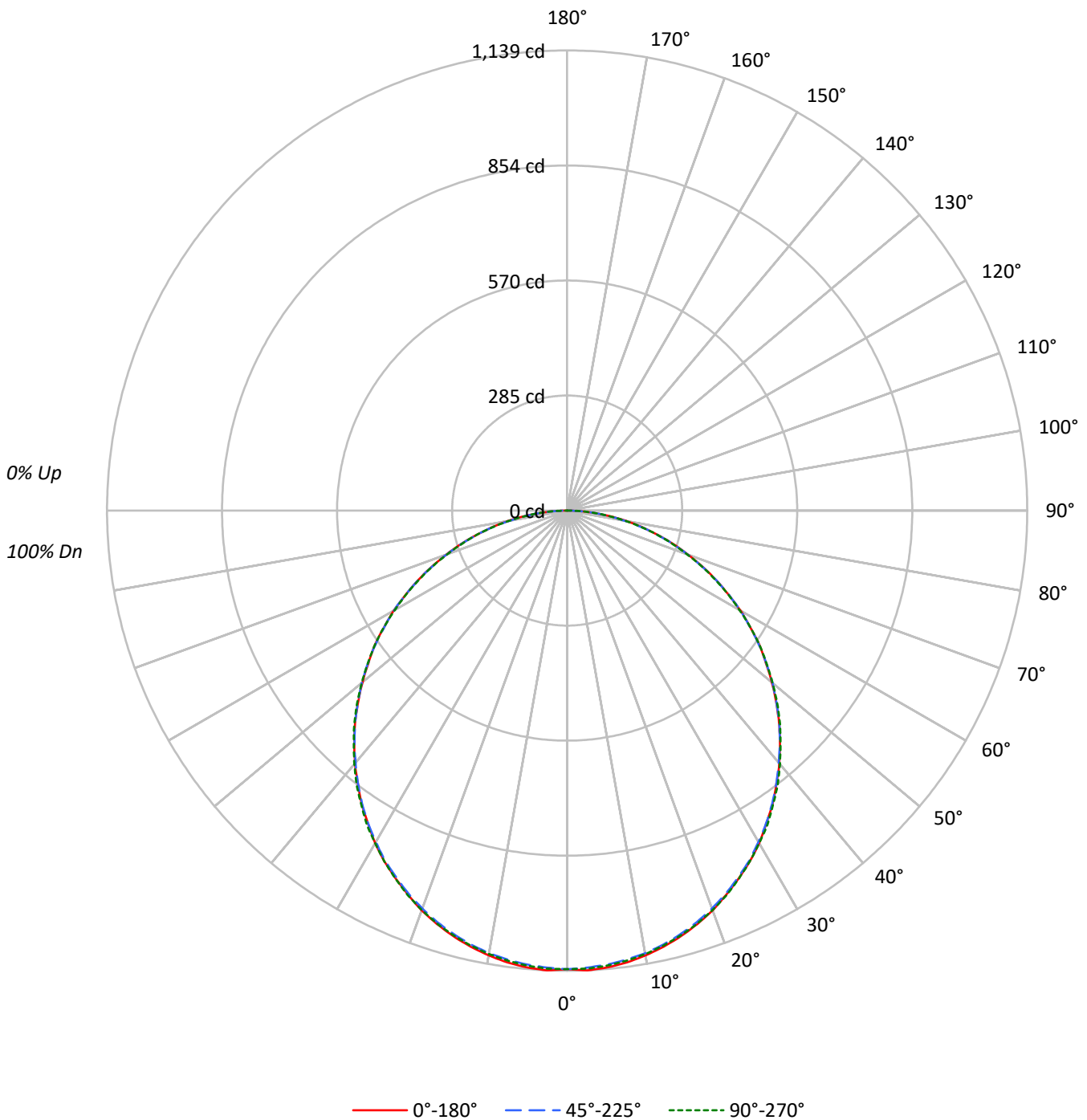
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1527	1527	1527
5°	1533	1524	1527
10°	1527	1520	1523
15°	1519	1512	1516
20°	1508	1501	1507
25°	1491	1487	1492
30°	1477	1471	1477
35°	1456	1454	1459
40°	1435	1431	1439
45°	1412	1412	1418
50°	1385	1389	1389
55°	1365	1360	1365
60°	1334	1333	1324
65°	1296	1295	1287
70°	1251	1248	1241
75°	1203	1199	1201
80°	1148	1125	1131
85°	1019	1019	1031



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	3.3
10°-20°	306.6	9.5
20°-30°	462.3	14.3
30°-40°	554.0	17.1
40°-50°	572.4	17.7
50°-60°	518.3	16.0
60°-70°	401.5	12.4
70°-80°	243.5	7.5
80°-90°	74.8	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°	876.3	27.0
0°-40°	1430.3	44.1
0°-60°	2521.0	77.8
0°-90°	3240.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3240.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1135	1131	1128	1128	1131	108
15°	1090	1087	1085	1086	1088	308
25°	1005	1002	1002	1004	1005	463
35°	886	883	885	886	888	554
45°	742	740	742	743	745	572
55°	582	579	580	581	582	519
65°	407	405	407	406	404	402
75°	231	231	231	228	231	245
85°	66	67	66	65	67	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1135.1	1135.1	1135.1	1135.1	1135.1
2.5°	1139.2	1135.1	1132.2	1132.2	1134.8
5°	1135.1	1130.7	1128.2	1128.2	1130.7
7.5°	1128.5	1123.7	1121.5	1121.5	1123.7
10°	1117.9	1114.2	1112.4	1112.4	1114.6
12.5°	1105.4	1102.1	1099.9	1100.3	1102.5
15°	1090.4	1087.1	1085.2	1086.0	1088.2
17.5°	1072.8	1069.5	1068.0	1069.1	1071.7
20°	1053.0	1048.9	1048.2	1049.3	1052.2
22.5°	1029.1	1026.6	1026.2	1028.0	1030.6
25°	1004.6	1002.4	1001.6	1003.8	1005.3
27.5°	979.2	975.2	976.7	977.0	979.2
30°	950.6	947.0	947.0	948.4	950.6
32.5°	917.6	915.4	917.3	919.1	922.4
35°	886.5	883.2	885.0	886.5	888.3
37.5°	851.2	850.5	850.9	853.1	856.0
40°	817.1	814.9	814.9	817.9	819.3
42.5°	779.7	777.9	779.4	780.8	781.6
45°	742.0	740.5	742.0	743.1	745.3
47.5°	701.6	702.0	702.3	703.1	705.3
50°	661.6	663.1	663.5	664.9	663.5
52.5°	620.2	620.6	622.0	622.4	622.8
55°	582.0	578.7	579.8	580.6	581.7
57.5°	537.3	536.2	536.2	537.3	538.0
60°	495.9	493.7	495.5	493.3	492.2
62.5°	449.6	450.4	451.1	450.7	448.9
65°	407.1	404.9	406.7	405.6	404.2
67.5°	362.4	360.5	361.3	360.9	360.5
70°	318.0	318.0	317.2	315.4	315.4
72.5°	276.2	274.0	274.7	272.5	272.5
75°	231.4	231.4	230.7	228.5	231.1
77.5°	189.6	188.5	187.8	186.3	186.3
80°	148.2	145.6	145.2	145.2	146.0
82.5°	107.5	105.6	104.9	104.9	105.3
85°	66.0	67.1	66.0	64.9	66.8
87.5°	31.2	29.7	29.7	30.8	31.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)