

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: P475840

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475840
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-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: 4127.3 lumens
Efficiency: N/A
Efficacy: 125.1 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

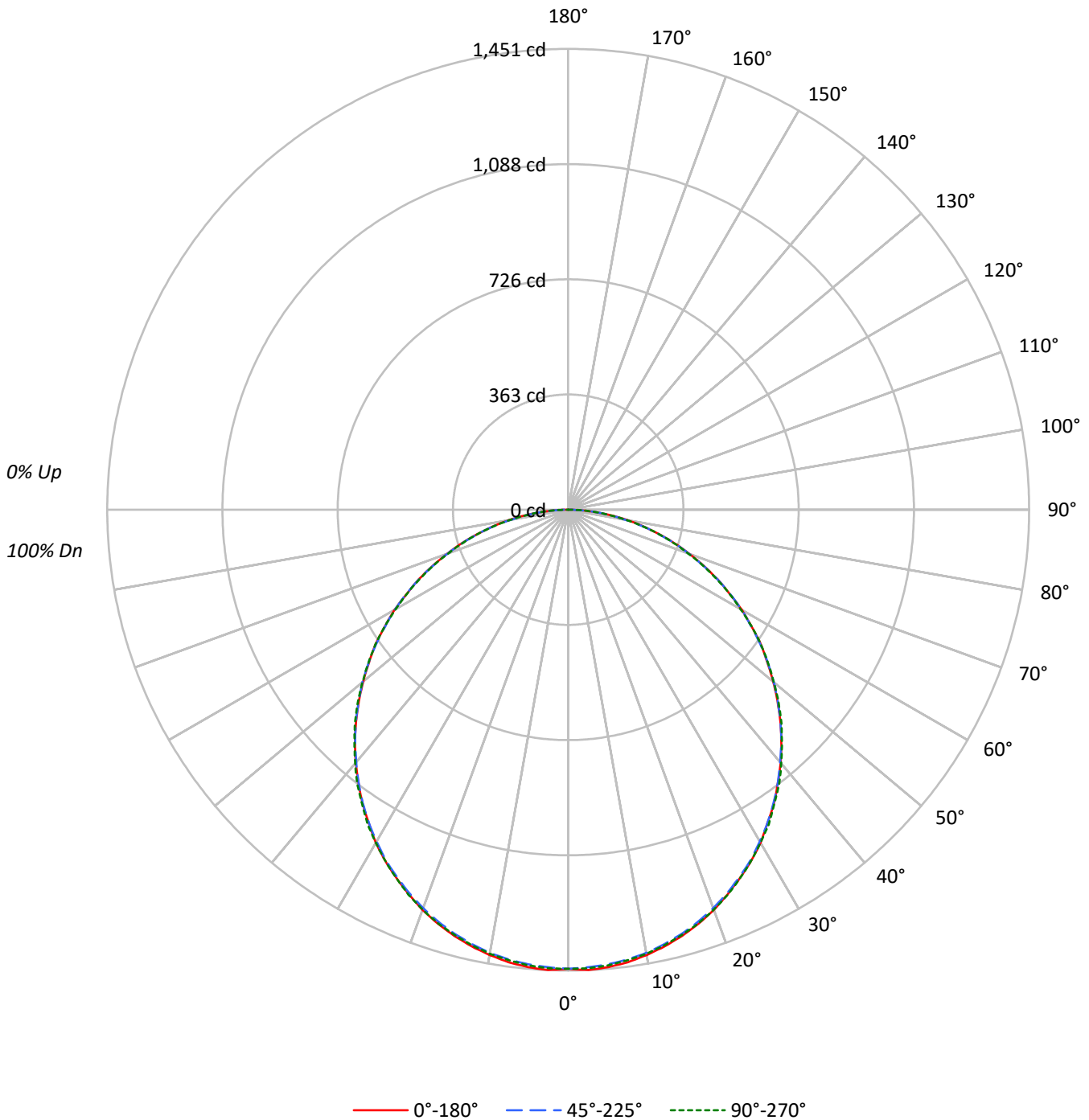
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	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°	1945	1945	1945
5°	1952	1940	1945
10°	1945	1936	1939
15°	1934	1925	1930
20°	1920	1911	1919
25°	1899	1894	1901
30°	1881	1874	1881
35°	1854	1851	1858
40°	1828	1823	1833
45°	1798	1798	1806
50°	1764	1769	1769
55°	1739	1732	1738
60°	1699	1698	1687
65°	1651	1649	1639
70°	1593	1589	1580
75°	1532	1527	1530
80°	1462	1433	1440
85°	1298	1298	1312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	3.3
10°-20°	390.5	9.5
20°-30°	588.7	14.3
30°-40°	705.5	17.1
40°-50°	728.9	17.7
50°-60°	660.1	16.0
60°-70°	511.4	12.4
70°-80°	310.1	7.5
80°-90°	95.2	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°	1116.0	27.0
0°-40°	1821.5	44.1
0°-60°	3210.6	77.8
0°-90°	4127.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4127.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1446	1440	1437	1437	1440	137
15°	1389	1384	1382	1383	1386	392
25°	1279	1276	1276	1278	1280	590
35°	1129	1125	1127	1129	1131	706
45°	945	943	945	946	949	728
55°	741	737	738	739	741	660
65°	518	516	518	517	515	512
75°	295	295	294	291	294	312
85°	84	86	84	83	85	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1445.6	1445.6	1445.6	1445.6	1445.6
2.5°	1450.8	1445.6	1441.9	1441.9	1445.2
5°	1445.6	1440.0	1436.7	1436.7	1440.0
7.5°	1437.2	1431.1	1428.3	1428.3	1431.1
10°	1423.7	1419.0	1416.7	1416.7	1419.5
12.5°	1407.8	1403.6	1400.8	1401.2	1404.0
15°	1388.6	1384.4	1382.1	1383.0	1385.8
17.5°	1366.2	1362.0	1360.1	1361.5	1364.8
20°	1341.0	1335.9	1334.9	1336.3	1340.1
22.5°	1310.6	1307.4	1306.9	1309.2	1312.5
25°	1279.3	1276.5	1275.6	1278.4	1280.3
27.5°	1247.1	1242.0	1243.8	1244.3	1247.1
30°	1210.7	1206.0	1206.0	1207.9	1210.7
32.5°	1168.6	1165.8	1168.2	1170.5	1174.7
35°	1128.9	1124.7	1127.1	1128.9	1131.3
37.5°	1084.1	1083.2	1083.6	1086.4	1090.2
40°	1040.7	1037.9	1037.9	1041.6	1043.5
42.5°	993.0	990.7	992.5	994.4	995.4
45°	944.9	943.0	944.9	946.3	949.1
47.5°	893.5	894.0	894.5	895.4	898.2
50°	842.6	844.5	845.0	846.8	845.0
52.5°	789.8	790.3	792.2	792.6	793.1
55°	741.3	737.1	738.5	739.4	740.8
57.5°	684.3	682.9	682.9	684.3	685.2
60°	631.5	628.7	631.0	628.2	626.8
62.5°	572.6	573.6	574.5	574.0	571.7
65°	518.5	515.7	518.0	516.6	514.7
67.5°	461.5	459.1	460.1	459.6	459.1
70°	405.0	405.0	404.0	401.7	401.7
72.5°	351.7	348.9	349.8	347.0	347.0
75°	294.7	294.7	293.8	291.0	294.3
77.5°	241.5	240.1	239.1	237.3	237.3
80°	188.7	185.4	185.0	185.0	185.9
82.5°	136.9	134.5	133.6	133.6	134.1
85°	84.1	85.5	84.1	82.7	85.0
87.5°	39.7	37.8	37.8	39.2	40.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)