

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: P292854

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-26)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-FGW080-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1648.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

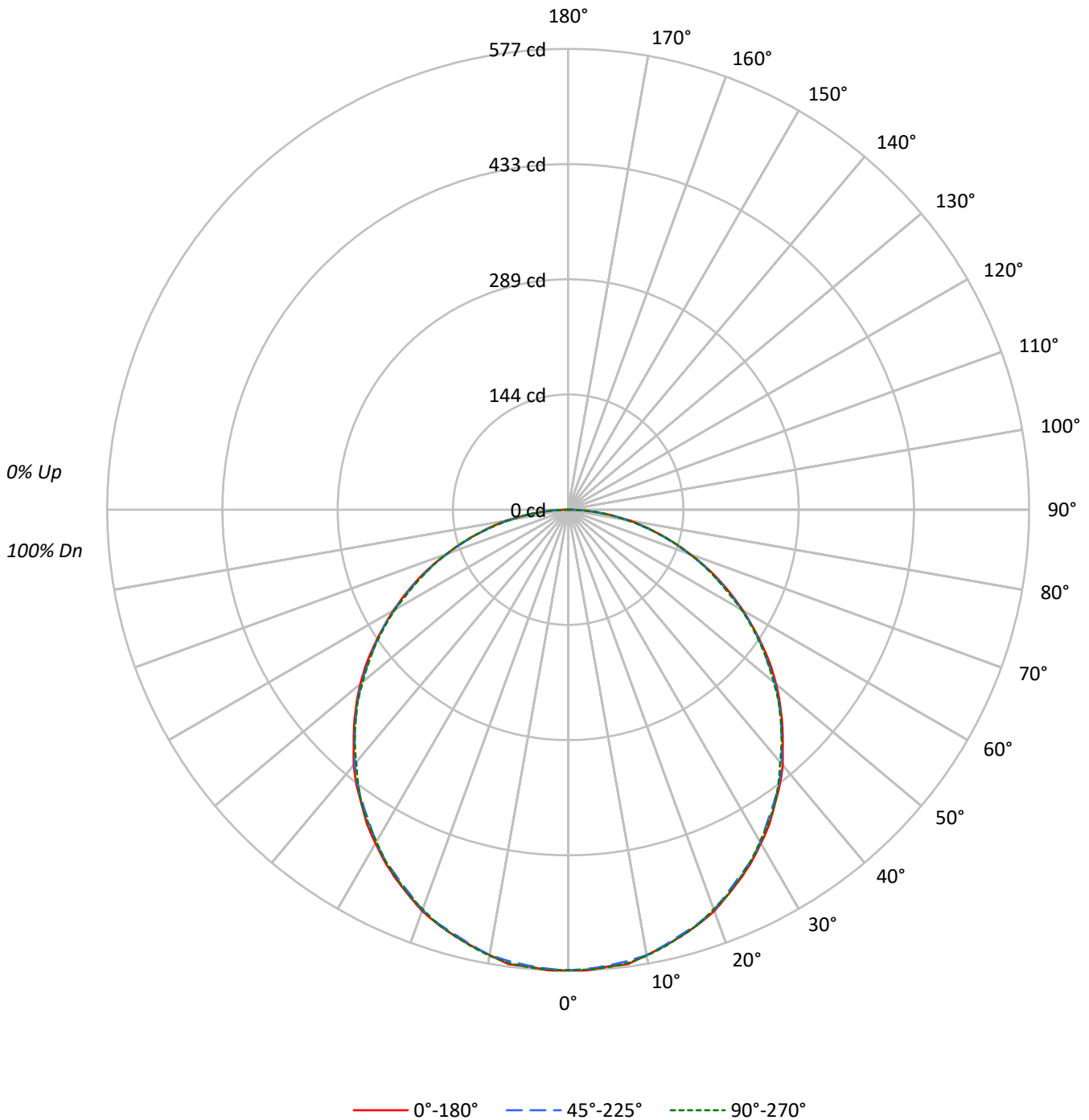
Input Watts (W): 16.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	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	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	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	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	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°	1552	1552	1552
5°	1550	1548	1553
10°	1547	1547	1550
15°	1537	1533	1538
20°	1531	1527	1524
25°	1514	1506	1510
30°	1499	1495	1491
35°	1480	1474	1480
40°	1467	1460	1450
45°	1442	1433	1433
50°	1422	1414	1406
55°	1392	1383	1380
60°	1359	1351	1347
65°	1325	1310	1303
70°	1271	1268	1271
75°	1228	1212	1223
80°	1215	1155	1147
85°	1074	1047	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	3.3
10°-20°	155.7	9.4
20°-30°	234.4	14.2
30°-40°	281.3	17.1
40°-50°	291.1	17.7
50°-60°	263.8	16.0
60°-70°	204.5	12.4
70°-80°	124.1	7.5
80°-90°	38.4	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°	444.7	27.0
0°-40°	726.0	44.1
0°-60°	1281.0	77.7
0°-90°	1648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	577	577	577	577	577	
5°	574	574	573	574	575	55
15°	552	552	550	553	552	156
25°	510	509	507	509	509	235
35°	450	450	449	449	450	282
45°	379	378	376	376	376	292
55°	297	296	295	294	294	265
65°	208	208	206	207	205	206
75°	118	118	117	117	118	126
85°	35	34	34	34	34	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	576.8	576.8	576.8	576.8	576.8
2.5°	577.3	574.9	575.4	576.3	576.3
5°	573.9	573.9	572.9	574.4	574.9
7.5°	573.9	571.5	570.0	571.5	572.5
10°	566.2	565.2	566.2	565.7	567.1
12.5°	559.4	558.4	558.4	559.9	559.9
15°	551.7	551.7	550.2	552.6	552.1
17.5°	543.9	543.9	542.9	542.9	543.9
20°	534.7	532.3	533.3	532.8	532.3
22.5°	522.1	520.7	519.7	521.2	521.7
25°	510.0	509.1	507.1	509.1	508.6
27.5°	497.0	496.0	495.5	494.6	495.5
30°	482.5	481.5	481.0	480.0	480.0
32.5°	467.9	466.0	463.6	466.0	465.5
35°	450.5	450.5	448.6	449.1	450.5
37.5°	435.0	434.1	433.1	431.6	432.1
40°	417.6	416.2	415.7	414.7	412.8
42.5°	397.3	397.3	395.4	395.8	395.4
45°	378.9	378.4	376.5	376.5	376.5
47.5°	359.5	359.1	357.6	356.6	357.6
50°	339.7	337.8	337.8	336.3	335.8
52.5°	318.9	317.4	315.5	316.0	315.0
55°	296.6	296.2	294.7	294.2	294.2
57.5°	274.4	274.9	273.9	272.0	272.4
60°	252.6	252.1	251.1	250.2	250.2
62.5°	230.3	230.3	228.4	228.4	226.5
65°	208.1	208.1	205.7	206.6	204.7
67.5°	185.8	185.3	183.9	183.4	183.9
70°	161.6	162.1	161.1	161.1	161.6
72.5°	139.8	139.4	138.9	138.9	139.8
75°	118.1	117.6	116.6	116.6	117.6
77.5°	98.2	95.8	95.3	96.3	94.8
80°	78.4	75.0	74.5	74.0	74.0
82.5°	55.2	53.7	54.2	53.7	54.7
85°	34.8	34.4	33.9	33.9	34.4
87.5°	16.5	15.5	15.5	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)