

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: P292887

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292887
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-LD5-36-FGW080-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2793.0 lumens
Efficiency: N/A
Efficacy: 97.2 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

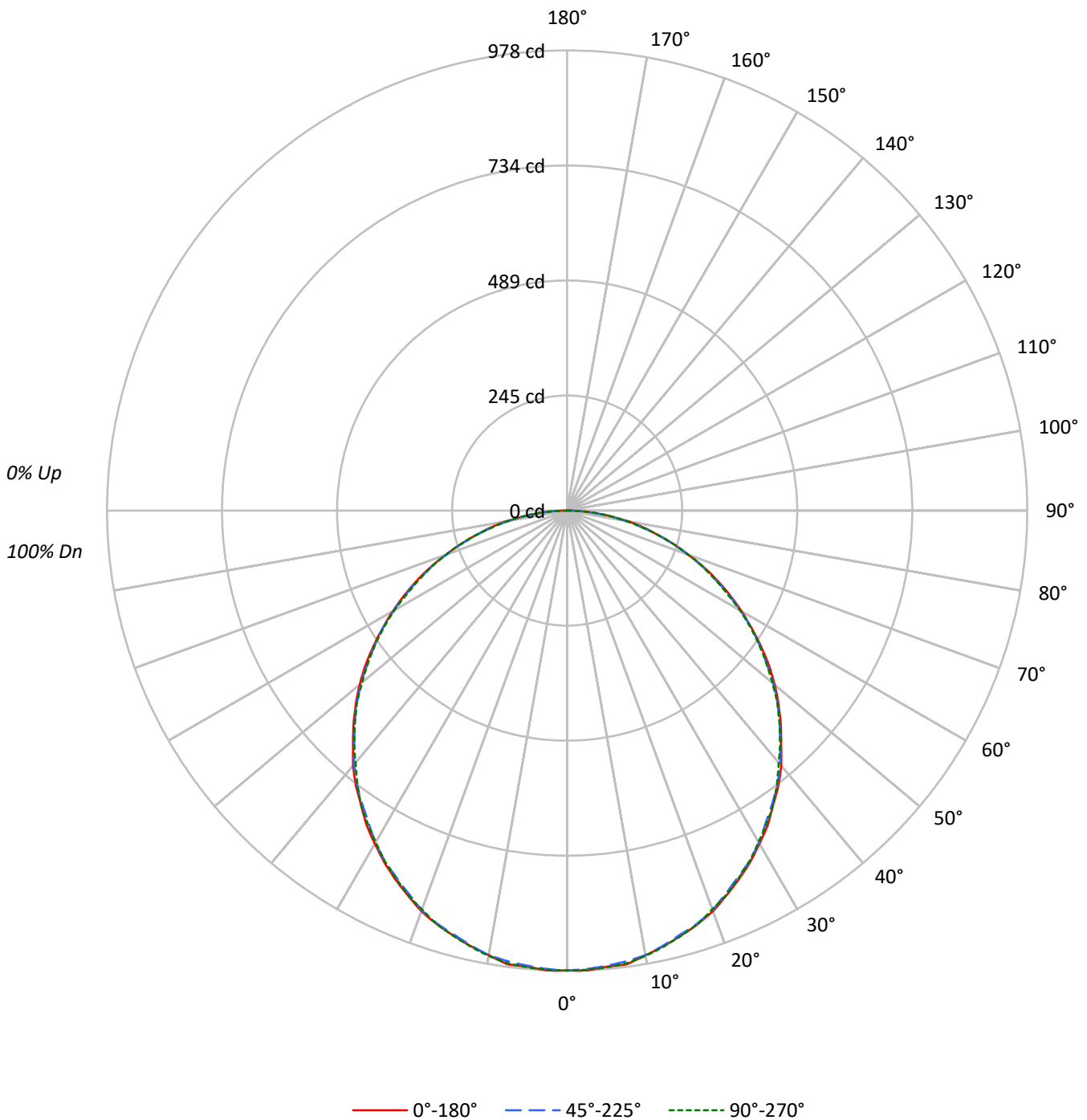
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	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	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	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	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	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°	2631	2631	2631
5°	2628	2623	2632
10°	2622	2622	2626
15°	2605	2598	2607
20°	2595	2588	2583
25°	2567	2552	2559
30°	2541	2533	2528
35°	2508	2497	2508
40°	2486	2475	2458
45°	2444	2428	2428
50°	2410	2396	2383
55°	2358	2343	2339
60°	2304	2291	2282
65°	2245	2219	2209
70°	2155	2149	2155
75°	2080	2054	2072
80°	2060	1957	1945
85°	1822	1772	1797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	3.3
10°-20°	263.9	9.4
20°-30°	397.3	14.2
30°-40°	476.8	17.1
40°-50°	493.4	17.7
50°-60°	447.1	16.0
60°-70°	346.5	12.4
70°-80°	210.4	7.5
80°-90°	65.1	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°	753.7	27.0
0°-40°	1230.5	44.1
0°-60°	2170.9	77.7
0°-90°	2793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2793.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	973	973	971	974	974	93
15°	935	935	932	937	936	264
25°	864	863	860	863	862	398
35°	764	764	760	761	764	479
45°	642	641	638	638	638	496
55°	503	502	499	499	499	450
65°	353	353	348	350	347	349
75°	200	199	198	198	199	213
85°	59	58	57	57	58	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	977.6	977.6	977.6	977.6	977.6
2.5°	978.4	974.3	975.1	976.8	976.8
5°	972.7	972.7	971.0	973.5	974.3
7.5°	972.7	968.6	966.1	968.6	970.2
10°	959.5	957.9	959.5	958.7	961.2
12.5°	948.1	946.4	946.4	948.9	948.9
15°	934.9	934.9	932.5	936.6	935.8
17.5°	921.8	921.8	920.2	920.2	921.8
20°	906.2	902.1	903.8	902.9	902.1
22.5°	884.9	882.4	880.8	883.3	884.1
25°	864.4	862.8	859.5	862.8	861.9
27.5°	842.3	840.6	839.8	838.2	839.8
30°	817.7	816.0	815.2	813.6	813.6
32.5°	793.1	789.8	785.7	789.8	788.9
35°	763.5	763.5	760.2	761.1	763.5
37.5°	737.3	735.6	734.0	731.5	732.4
40°	707.8	705.3	704.5	702.8	699.6
42.5°	673.3	673.3	670.0	670.9	670.0
45°	642.1	641.3	638.0	638.0	638.0
47.5°	609.3	608.5	606.1	604.4	606.1
50°	575.7	572.4	572.4	570.0	569.2
52.5°	540.5	538.0	534.7	535.5	533.9
55°	502.7	501.9	499.4	498.6	498.6
57.5°	465.0	465.8	464.2	460.9	461.7
60°	428.1	427.3	425.6	424.0	424.0
62.5°	390.4	390.4	387.1	387.1	383.8
65°	352.6	352.6	348.5	350.2	346.9
67.5°	314.9	314.1	311.6	310.8	311.6
70°	273.9	274.7	273.1	273.1	273.9
72.5°	237.0	236.2	235.4	235.4	237.0
75°	200.1	199.3	197.6	197.6	199.3
77.5°	166.5	162.4	161.6	163.2	160.7
80°	132.9	127.1	126.3	125.5	125.5
82.5°	93.5	91.0	91.9	91.0	92.7
85°	59.0	58.2	57.4	57.4	58.2
87.5°	27.9	26.2	26.2	25.4	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)