

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: P292783

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292783
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-LD5-32-FGW080-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2814.0 lumens
Efficiency: N/A
Efficacy: 109.6 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

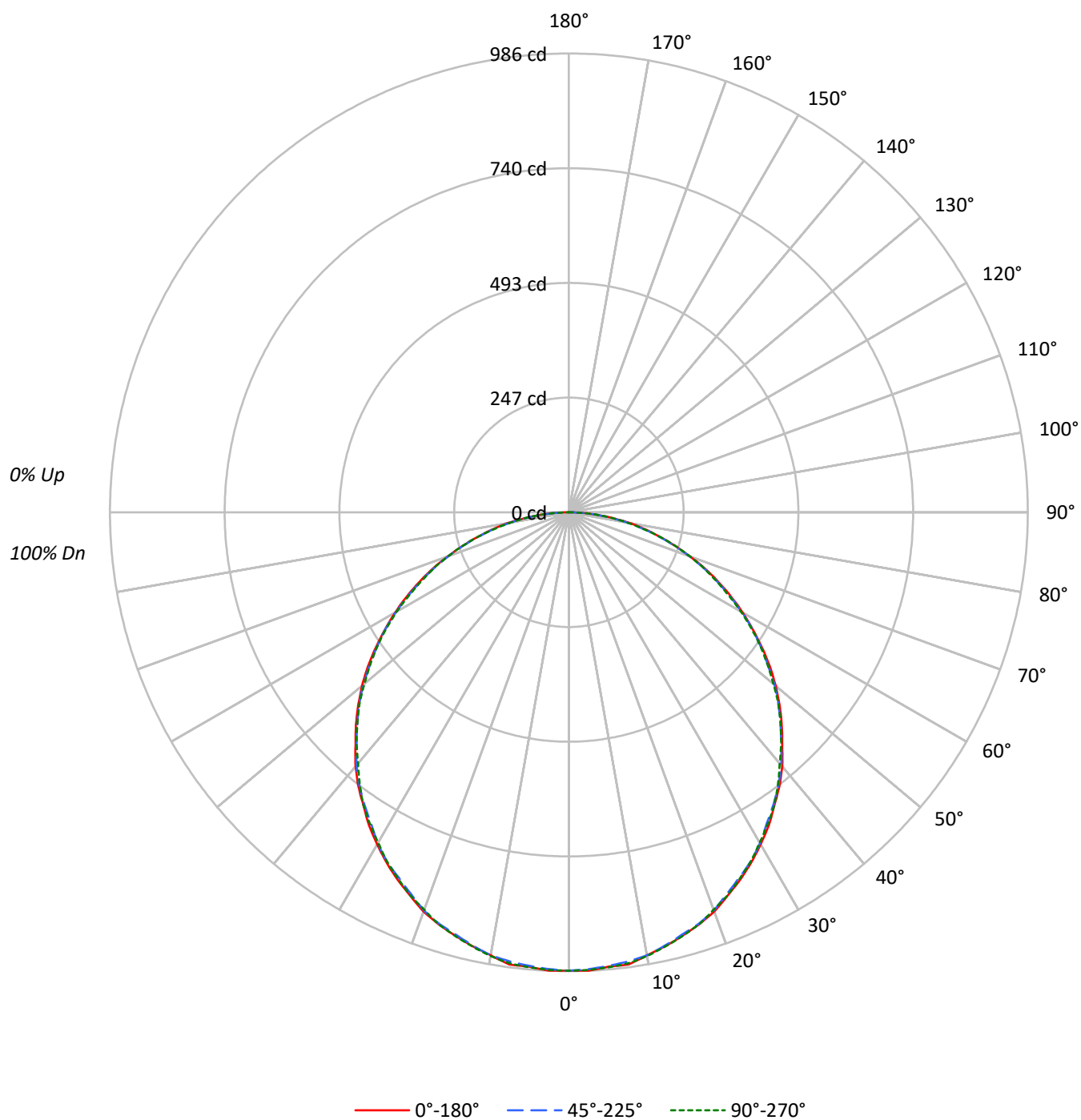
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	85	79	74		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2650	2650	2650
5°	2647	2643	2652
10°	2641	2641	2646
15°	2624	2617	2627
20°	2615	2608	2603
25°	2586	2571	2578
30°	2560	2552	2547
35°	2527	2516	2527
40°	2505	2493	2476
45°	2462	2446	2446
50°	2428	2414	2400
55°	2376	2361	2357
60°	2321	2308	2299
65°	2262	2236	2225
70°	2172	2165	2172
75°	2096	2070	2088
80°	2075	1971	1959
85°	1837	1785	1812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	3.3
10°-20°	265.8	9.4
20°-30°	400.3	14.2
30°-40°	480.4	17.1
40°-50°	497.1	17.7
50°-60°	450.4	16.0
60°-70°	349.2	12.4
70°-80°	212.0	7.5
80°-90°	65.6	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°	759.3	27.0
0°-40°	1239.7	44.1
0°-60°	2187.3	77.7
0°-90°	2814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	985	985	985	985	985	
5°	980	980	978	981	982	93
15°	942	942	940	944	943	266
25°	871	869	866	869	868	401
35°	769	769	766	767	769	482
45°	647	646	643	643	643	499
55°	506	506	503	502	502	453
65°	355	355	351	353	350	351
75°	202	201	199	199	201	214
85°	60	59	58	58	59	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	984.9	984.9	984.9	984.9	984.9
2.5°	985.8	981.6	982.4	984.1	984.1
5°	980.0	980.0	978.3	980.8	981.6
7.5°	980.0	975.8	973.4	975.8	977.5
10°	966.7	965.1	966.7	965.9	968.4
12.5°	955.2	953.5	953.5	956.0	956.0
15°	942.0	942.0	939.5	943.6	942.8
17.5°	928.7	928.7	927.1	927.1	928.7
20°	913.0	908.9	910.6	909.7	908.9
22.5°	891.6	889.1	887.4	889.9	890.7
25°	870.9	869.2	865.9	869.2	868.4
27.5°	848.6	846.9	846.1	844.5	846.1
30°	823.8	822.1	821.3	819.7	819.7
32.5°	799.0	795.7	791.6	795.7	794.9
35°	769.3	769.3	766.0	766.8	769.3
37.5°	742.8	741.2	739.5	737.0	737.9
40°	713.1	710.6	709.8	708.1	704.8
42.5°	678.4	678.4	675.1	675.9	675.1
45°	647.0	646.2	642.8	642.8	642.8
47.5°	613.9	613.1	610.6	609.0	610.6
50°	580.0	576.7	576.7	574.3	573.4
52.5°	544.5	542.0	538.7	539.6	537.9
55°	506.5	505.7	503.2	502.4	502.4
57.5°	468.5	469.3	467.7	464.4	465.2
60°	431.3	430.5	428.8	427.2	427.2
62.5°	393.3	393.3	390.0	390.0	386.7
65°	355.3	355.3	351.2	352.8	349.5
67.5°	317.3	316.5	314.0	313.2	314.0
70°	276.0	276.8	275.2	275.2	276.0
72.5°	238.8	238.0	237.1	237.1	238.8
75°	201.6	200.8	199.1	199.1	200.8
77.5°	167.7	163.6	162.8	164.4	162.0
80°	133.9	128.1	127.2	126.4	126.4
82.5°	94.2	91.7	92.5	91.7	93.4
85°	59.5	58.7	57.8	57.8	58.7
87.5°	28.1	26.4	26.4	25.6	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)