

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: P292062

Luminaire Tested: **22GR-LD5-20-F125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-F125-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1629.0 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

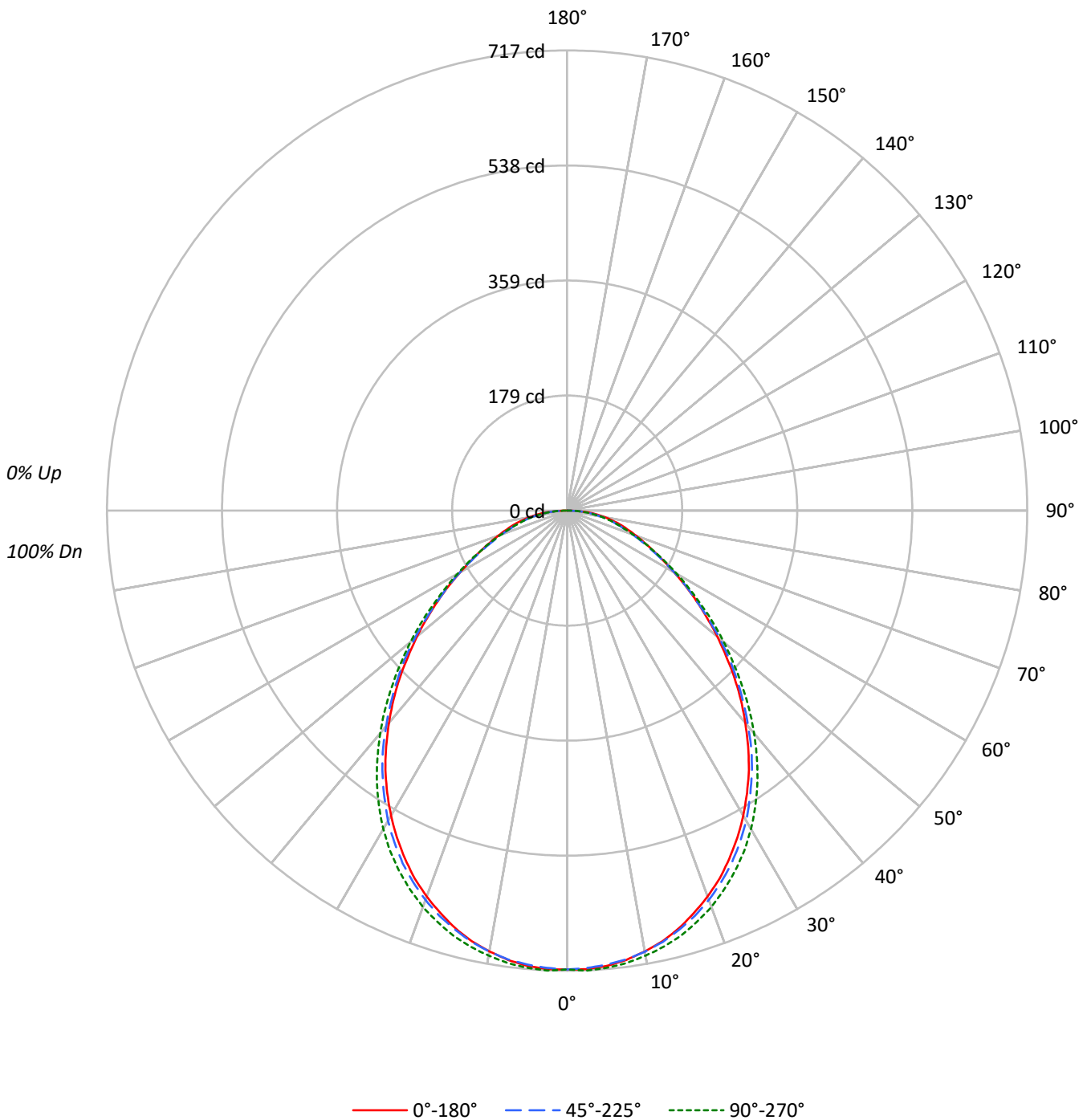
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1924	1924	1924
5°	1924	1918	1932
10°	1906	1907	1924
15°	1877	1883	1910
20°	1832	1849	1882
25°	1776	1800	1839
30°	1705	1735	1780
35°	1622	1648	1699
40°	1516	1541	1592
45°	1404	1426	1467
50°	1279	1299	1333
55°	1155	1158	1192
60°	1035	1039	1064
65°	944	924	946
70°	898	847	862
75°	904	817	821
80°	938	826	820
85°	1028	874	827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	4.1
10°-20°	190.9	11.7
20°-30°	279.3	17.1
30°-40°	314.1	19.3
40°-50°	289.6	17.8
50°-60°	223.2	13.7
60°-70°	147.3	9.0
70°-80°	85.7	5.3
80°-90°	31.2	1.9
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°	537.8	33.0
0°-40°	851.8	52.3
0°-60°	1364.7	83.8
0°-90°	1629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1629.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	712	711	710	714	715	67
15°	674	674	676	682	686	190
25°	598	601	606	615	620	275
35°	494	496	502	512	517	308
45°	369	369	375	382	386	284
55°	246	246	247	251	254	221
65°	148	147	145	146	148	149
75°	87	83	79	77	79	92
85°	33	33	28	26	27	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	715.1	715.1	715.1	715.1	715.1
2.5°	715.1	713.6	713.2	715.9	717.4
5°	712.1	710.6	710.2	713.6	715.1
7.5°	706.1	704.9	705.3	709.1	711.0
10°	697.4	697.0	697.8	701.9	704.2
12.5°	687.2	686.8	688.3	692.8	695.9
15°	673.6	673.6	675.8	681.9	685.7
17.5°	657.3	658.4	661.8	667.9	672.0
20°	639.9	641.1	645.6	652.4	657.3
22.5°	620.6	622.2	626.7	635.0	639.2
25°	598.0	601.0	606.3	614.6	619.5
27.5°	574.5	577.9	582.8	593.1	597.6
30°	548.8	551.1	558.3	567.7	573.0
32.5°	521.6	523.9	529.9	541.3	545.8
35°	493.6	495.9	501.6	511.8	517.1
37.5°	463.4	465.3	472.1	480.0	485.7
40°	431.7	434.3	438.8	448.3	453.2
42.5°	400.7	401.8	406.7	416.2	419.9
45°	368.9	369.3	374.6	382.1	385.5
47.5°	336.0	336.8	343.2	347.7	351.1
50°	305.4	305.8	310.3	314.5	318.3
52.5°	274.8	274.8	277.1	281.6	286.5
55°	246.1	245.7	246.8	251.0	254.0
57.5°	218.9	218.5	220.0	222.6	224.9
60°	192.4	191.6	193.1	194.7	197.7
62.5°	169.0	169.7	167.8	170.1	172.4
65°	148.2	147.4	145.1	146.3	148.5
67.5°	130.4	129.3	125.5	126.2	128.9
70°	114.1	111.9	107.7	107.7	109.6
72.5°	99.4	97.1	91.8	92.2	93.0
75°	86.9	83.2	78.6	77.1	79.0
77.5°	73.3	70.3	66.1	65.0	65.8
80°	60.5	58.2	53.3	51.8	52.9
82.5°	48.0	46.1	40.4	39.3	39.7
85°	33.3	32.9	28.3	26.1	26.8
87.5°	17.8	18.1	14.7	13.2	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)