

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: P291997

Luminaire Tested: **22GR-LD5-32-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291997
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-LD5-32-F125-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3351.0 lumens
Efficiency: N/A
Efficacy: 133.0 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

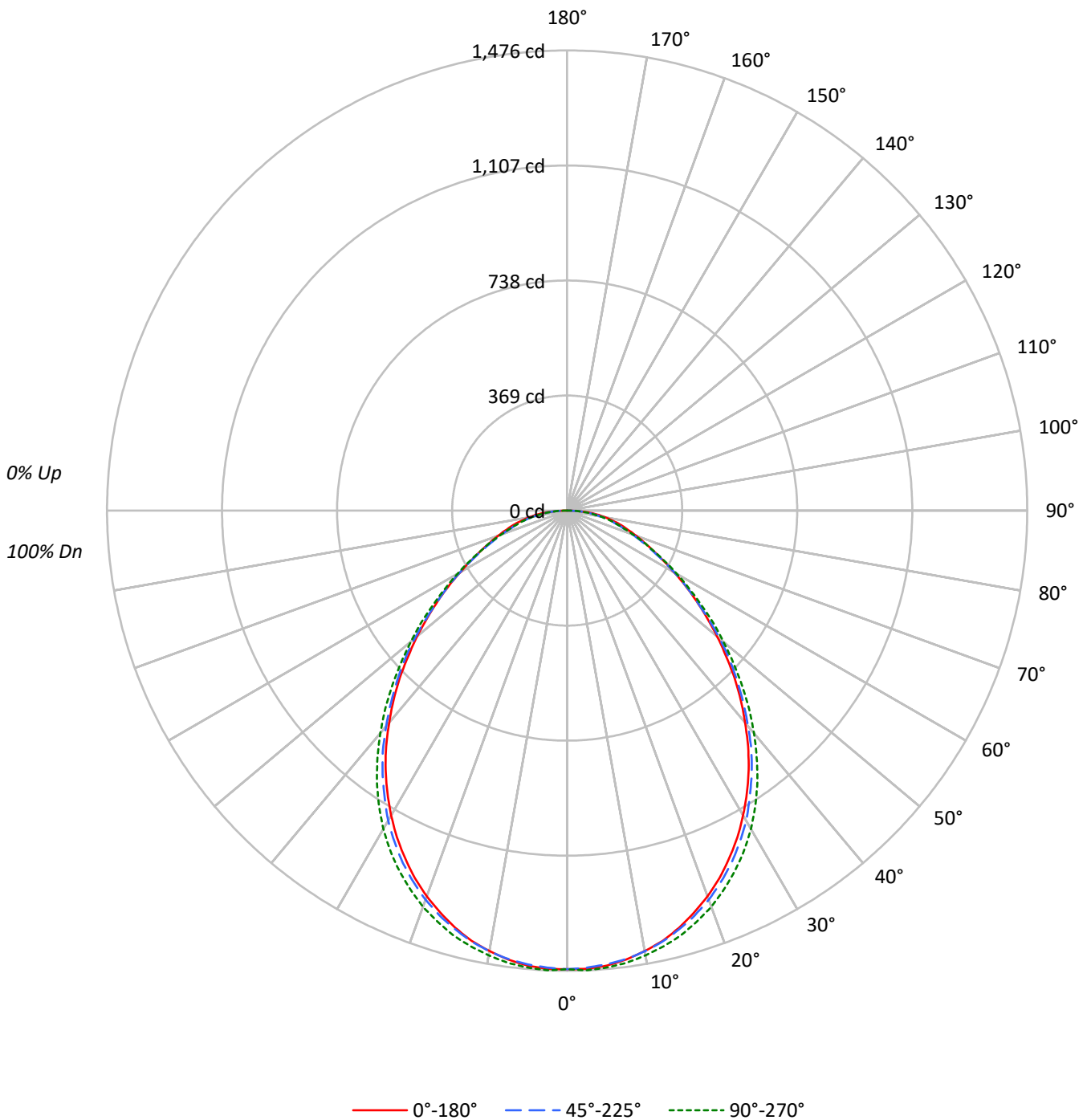
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3959	3959	3959
5°	3957	3947	3974
10°	3920	3922	3958
15°	3860	3873	3930
20°	3770	3803	3872
25°	3652	3703	3784
30°	3508	3568	3663
35°	3336	3390	3494
40°	3119	3171	3275
45°	2888	2932	3018
50°	2630	2673	2741
55°	2375	2382	2451
60°	2130	2138	2189
65°	1941	1901	1946
70°	1847	1744	1774
75°	1859	1681	1690
80°	1928	1698	1688
85°	2112	1800	1704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	4.1
10°-20°	392.6	11.7
20°-30°	574.6	17.1
30°-40°	646.1	19.3
40°-50°	595.8	17.8
50°-60°	459.2	13.7
60°-70°	303.0	9.0
70°-80°	176.4	5.3
80°-90°	64.2	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°	1106.2	33.0
0°-40°	1752.3	52.3
0°-60°	2807.4	83.8
0°-90°	3351.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3351.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1465	1462	1461	1468	1471	139
15°	1386	1386	1390	1403	1410	390
25°	1230	1236	1247	1264	1274	566
35°	1016	1020	1032	1053	1064	633
45°	759	760	770	786	793	584
55°	506	505	508	516	522	454
65°	305	303	299	301	306	306
75°	179	171	162	159	162	188
85°	68	68	58	54	55	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1471.1	1471.1	1471.1	1471.1	1471.1
2.5°	1471.1	1468.0	1467.2	1472.7	1475.8
5°	1464.9	1461.8	1461.0	1468.0	1471.1
7.5°	1452.4	1450.1	1450.9	1458.7	1462.6
10°	1434.6	1433.8	1435.3	1443.9	1448.6
12.5°	1413.6	1412.8	1415.9	1425.2	1431.4
15°	1385.6	1385.6	1390.2	1402.7	1410.5
17.5°	1352.1	1354.5	1361.5	1373.9	1382.5
20°	1316.4	1318.7	1328.0	1342.0	1352.1
22.5°	1276.7	1279.8	1289.2	1306.3	1314.8
25°	1230.1	1236.3	1247.2	1264.3	1274.4
27.5°	1181.9	1188.9	1199.0	1220.0	1229.3
30°	1129.0	1133.7	1148.4	1167.9	1178.7
32.5°	1073.0	1077.7	1090.1	1113.4	1122.8
35°	1015.5	1020.1	1031.8	1052.8	1063.7
37.5°	953.3	957.1	971.1	987.5	999.1
40°	887.9	893.4	902.7	922.2	932.3
42.5°	824.2	826.5	836.6	856.1	863.8
45°	758.9	759.7	770.5	786.1	793.1
47.5°	691.2	692.8	706.0	715.3	722.3
50°	628.3	629.0	638.4	646.9	654.7
52.5°	565.3	565.3	569.9	579.3	589.4
55°	506.2	505.4	507.7	516.3	522.5
57.5°	450.2	449.4	452.5	458.0	462.6
60°	395.8	394.2	397.3	400.4	406.7
62.5°	347.6	349.1	345.2	349.9	354.6
65°	304.8	303.2	298.6	300.9	305.6
67.5°	268.3	265.9	258.1	259.7	265.1
70°	234.8	230.2	221.6	221.6	225.5
72.5°	204.5	199.8	188.9	189.7	191.3
75°	178.8	171.1	161.7	158.6	162.5
77.5°	150.8	144.6	136.1	133.7	135.3
80°	124.4	119.7	109.6	106.5	108.9
82.5°	98.7	94.9	83.2	80.9	81.6
85°	68.4	67.6	58.3	53.7	55.2
87.5°	36.5	37.3	30.3	27.2	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)