

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: P292121

Luminaire Tested: **22GR-LD5-43-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292121
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-LD5-43-F125-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4025.0 lumens
Efficiency: N/A
Efficacy: 111.8 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

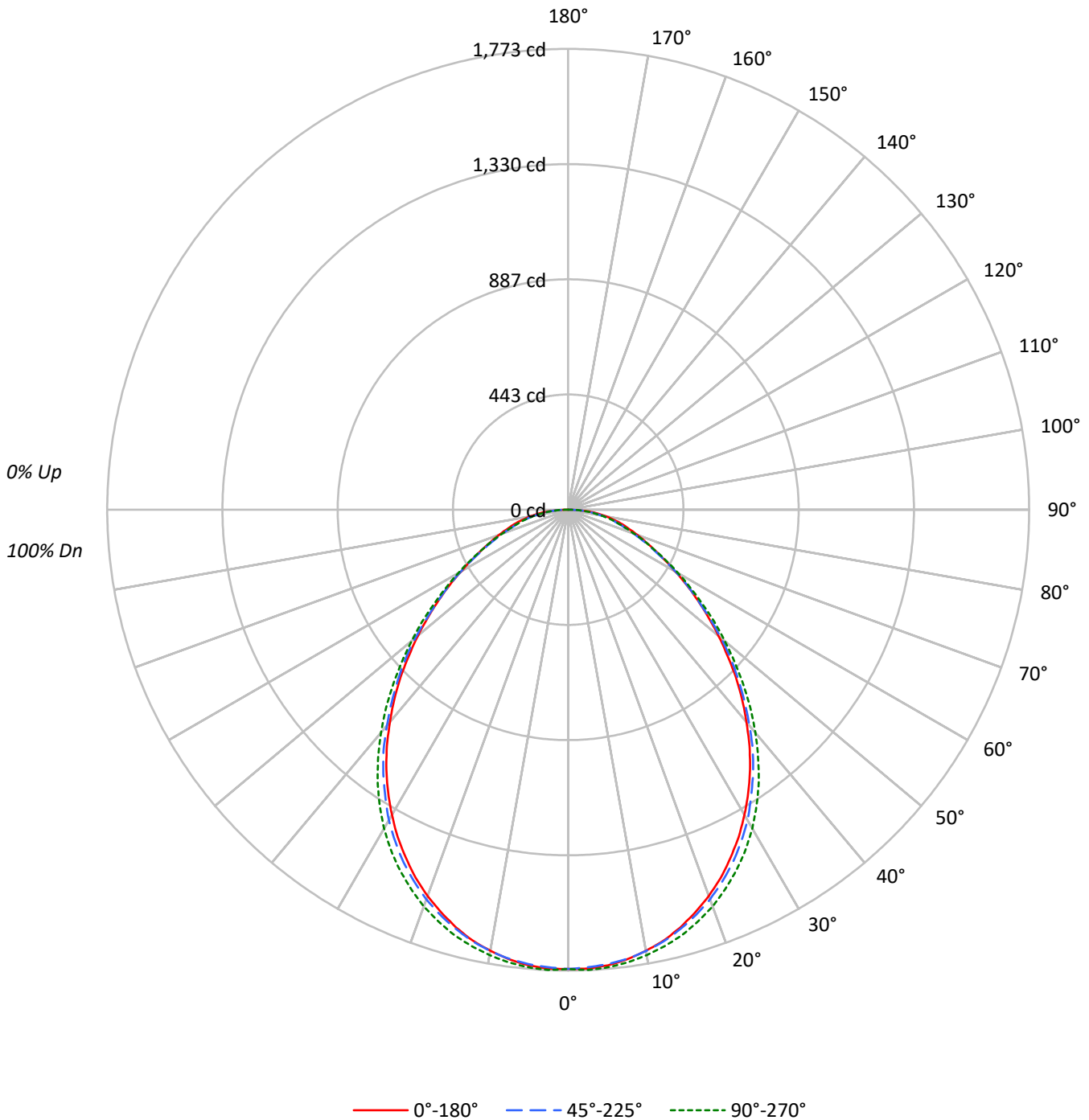
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4755	4755	4755
5°	4753	4740	4773
10°	4708	4711	4754
15°	4637	4652	4720
20°	4528	4568	4651
25°	4387	4448	4545
30°	4214	4286	4399
35°	4007	4071	4197
40°	3746	3809	3934
45°	3469	3522	3625
50°	3159	3210	3292
55°	2852	2861	2944
60°	2559	2568	2629
65°	2331	2283	2337
70°	2219	2094	2131
75°	2233	2020	2030
80°	2315	2041	2025
85°	2538	2161	2047



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	4.1
10°-20°	471.6	11.7
20°-30°	690.2	17.1
30°-40°	776.0	19.3
40°-50°	715.7	17.8
50°-60°	551.6	13.7
60°-70°	364.0	9.0
70°-80°	211.8	5.3
80°-90°	77.2	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°	1328.7	33.0
0°-40°	2104.8	52.3
0°-60°	3372.0	83.8
0°-90°	4025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1767	1767	1767	1767	1767	
5°	1760	1756	1755	1763	1767	167
15°	1664	1664	1670	1685	1694	468
25°	1478	1485	1498	1519	1531	680
35°	1220	1225	1239	1264	1278	760
45°	912	912	926	944	953	702
55°	608	607	610	620	628	545
65°	366	364	359	361	367	367
75°	215	206	194	190	195	226
85°	82	81	70	64	66	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1767.0	1767.0	1767.0	1767.0	1767.0
2.5°	1767.0	1763.3	1762.3	1768.9	1772.6
5°	1759.5	1755.8	1754.9	1763.3	1767.0
7.5°	1744.6	1741.8	1742.7	1752.0	1756.7
10°	1723.1	1722.2	1724.0	1734.3	1739.9
12.5°	1697.9	1696.9	1700.7	1711.9	1719.4
15°	1664.3	1664.3	1669.9	1684.8	1694.1
17.5°	1624.1	1626.9	1635.3	1650.3	1660.5
20°	1581.1	1583.9	1595.1	1612.0	1624.1
22.5°	1533.5	1537.2	1548.5	1569.0	1579.3
25°	1477.5	1484.9	1498.0	1518.6	1530.7
27.5°	1419.6	1428.0	1440.1	1465.3	1476.5
30°	1356.1	1361.7	1379.4	1402.8	1415.8
32.5°	1288.8	1294.4	1309.4	1337.4	1348.6
35°	1219.7	1225.3	1239.3	1264.5	1277.6
37.5°	1145.0	1149.7	1166.5	1186.1	1200.1
40°	1066.5	1073.1	1084.3	1107.6	1119.8
42.5°	990.0	992.8	1004.9	1028.3	1037.6
45°	911.5	912.4	925.5	944.2	952.6
47.5°	830.3	832.1	848.0	859.2	867.6
50°	754.6	755.5	766.8	777.0	786.4
52.5°	679.0	679.0	684.6	695.8	707.9
55°	608.0	607.1	609.9	620.1	627.6
57.5°	540.7	539.8	543.5	550.1	555.7
60°	475.4	473.5	477.2	481.0	488.4
62.5°	417.5	419.3	414.7	420.3	425.9
65°	366.1	364.2	358.6	361.4	367.0
67.5°	322.2	319.4	310.1	311.9	318.5
70°	282.0	276.4	266.2	266.2	270.8
72.5°	245.6	240.0	226.9	227.9	229.7
75°	214.8	205.5	194.3	190.5	195.2
77.5°	181.2	173.7	163.4	160.6	162.5
80°	149.4	143.8	131.7	127.9	130.7
82.5°	118.6	113.9	99.9	97.1	98.1
85°	82.2	81.3	70.0	64.4	66.3
87.5°	43.9	44.8	36.4	32.7	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)