

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: P292097

Luminaire Tested: **22GR-LD5-32-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292097
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-L92765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3059.0 lumens
Efficiency: N/A
Efficacy: 119.2 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

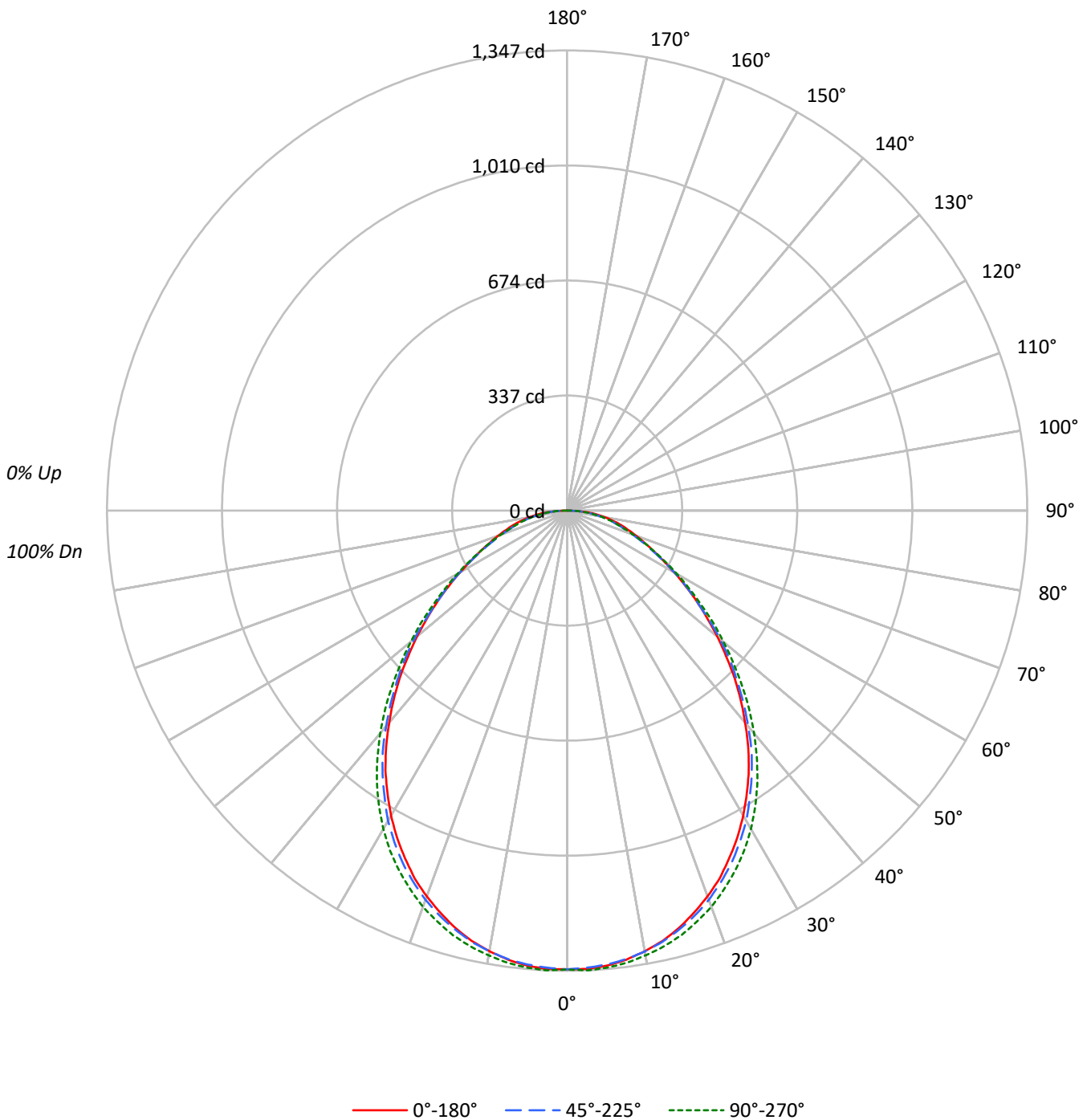
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3614	3614	3614
5°	3612	3603	3628
10°	3578	3580	3613
15°	3524	3536	3587
20°	3441	3472	3535
25°	3334	3380	3454
30°	3202	3258	3343
35°	3045	3094	3190
40°	2847	2895	2989
45°	2637	2677	2755
50°	2401	2439	2502
55°	2168	2175	2238
60°	1945	1952	1998
65°	1771	1736	1776
70°	1687	1592	1619
75°	1698	1535	1542
80°	1760	1551	1540
85°	1930	1643	1556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	4.1
10°-20°	358.4	11.7
20°-30°	524.6	17.1
30°-40°	589.8	19.3
40°-50°	543.9	17.8
50°-60°	419.2	13.7
60°-70°	276.6	9.0
70°-80°	161.0	5.3
80°-90°	58.7	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°	1009.8	33.0
0°-40°	1599.6	52.3
0°-60°	2562.7	83.8
0°-90°	3059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1343	1343	1343	1343	1343	
5°	1337	1334	1334	1340	1343	127
15°	1265	1265	1269	1280	1288	356
25°	1123	1129	1138	1154	1163	516
35°	927	931	942	961	971	578
45°	693	694	703	718	724	533
55°	462	461	464	471	477	415
65°	278	277	273	275	279	279
75°	163	156	148	145	148	172
85°	62	62	53	49	50	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1342.9	1342.9	1342.9	1342.9	1342.9
2.5°	1342.9	1340.1	1339.4	1344.3	1347.2
5°	1337.2	1334.4	1333.7	1340.1	1342.9
7.5°	1325.9	1323.7	1324.5	1331.6	1335.1
10°	1309.6	1308.8	1310.3	1318.1	1322.3
12.5°	1290.4	1289.7	1292.5	1301.0	1306.7
15°	1264.8	1264.8	1269.1	1280.5	1287.6
17.5°	1234.3	1236.4	1242.8	1254.2	1262.0
20°	1201.7	1203.8	1212.3	1225.1	1234.3
22.5°	1165.5	1168.3	1176.8	1192.4	1200.2
25°	1122.9	1128.6	1138.5	1154.1	1163.3
27.5°	1078.9	1085.3	1094.5	1113.7	1122.2
30°	1030.6	1034.9	1048.4	1066.1	1076.0
32.5°	979.5	983.8	995.1	1016.4	1024.9
35°	927.0	931.2	941.9	961.0	971.0
37.5°	870.2	873.7	886.5	901.4	912.1
40°	810.6	815.5	824.1	841.8	851.0
42.5°	752.4	754.5	763.7	781.5	788.6
45°	692.8	693.5	703.4	717.6	724.0
47.5°	631.0	632.4	644.5	653.0	659.4
50°	573.5	574.2	582.7	590.5	597.6
52.5°	516.0	516.0	520.3	528.8	538.0
55°	462.1	461.4	463.5	471.3	477.0
57.5°	411.0	410.3	413.1	418.1	422.3
60°	361.3	359.9	362.7	365.5	371.2
62.5°	317.3	318.7	315.1	319.4	323.7
65°	278.2	276.8	272.6	274.7	278.9
67.5°	244.9	242.7	235.6	237.1	242.0
70°	214.4	210.1	202.3	202.3	205.8
72.5°	186.7	182.4	172.5	173.2	174.6
75°	163.3	156.2	147.6	144.8	148.3
77.5°	137.7	132.0	124.2	122.1	123.5
80°	113.6	109.3	100.1	97.2	99.4
82.5°	90.1	86.6	75.9	73.8	74.5
85°	62.5	61.8	53.2	49.0	50.4
87.5°	33.4	34.1	27.7	24.8	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)