

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: P292500

Luminaire Tested: **22GR-LD5-40-A125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-A125-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3307.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

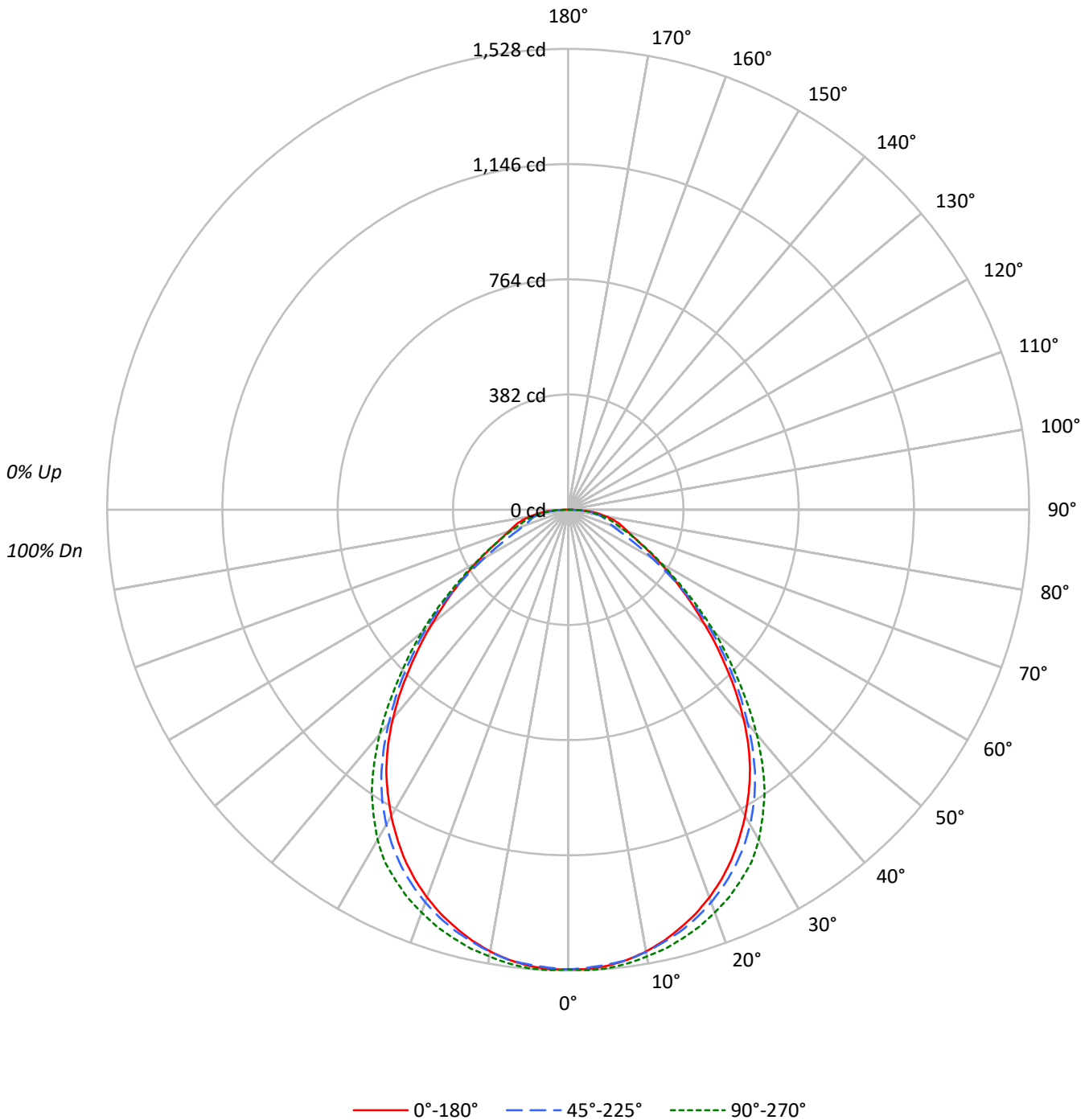
Input Watts (W): 32.085
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4102	4102	4102
5°	4099	4089	4122
10°	4064	4068	4110
15°	4000	4028	4096
20°	3917	3968	4069
25°	3803	3880	4022
30°	3644	3747	3927
35°	3452	3549	3729
40°	3175	3253	3416
45°	2820	2923	3028
50°	2463	2576	2653
55°	2142	2170	2250
60°	1884	1727	1921
65°	1674	1380	1684
70°	1644	1226	1553
75°	1796	1346	1588
80°	1971	1601	1697
85°	2356	1856	1905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	4.4
10°-20°	408.6	12.4
20°-30°	603.1	18.2
30°-40°	674.9	20.4
40°-50°	592.7	17.9
50°-60°	419.4	12.7
60°-70°	244.1	7.4
70°-80°	152.1	4.6
80°-90°	68.1	2.1
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°	1155.8	34.9
0°-40°	1830.7	55.4
0°-60°	2842.7	86.0
0°-90°	3307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1524	1524	1524	1524	1524	
5°	1517	1514	1514	1521	1526	144
15°	1436	1439	1446	1461	1470	405
25°	1281	1286	1307	1338	1355	588
35°	1051	1056	1080	1113	1135	654
45°	741	750	768	786	796	573
55°	456	466	463	471	480	413
65°	263	242	217	236	264	267
75°	173	149	130	133	153	180
85°	76	79	60	59	62	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1524.4	1524.4	1524.4	1524.4	1524.4
2.5°	1524.4	1521.3	1519.7	1525.1	1528.2
5°	1517.4	1513.6	1513.6	1521.3	1525.9
7.5°	1505.1	1501.2	1505.9	1512.8	1517.4
10°	1487.4	1485.8	1488.9	1498.1	1504.3
12.5°	1464.2	1465.0	1468.1	1482.7	1490.4
15°	1435.7	1438.8	1445.7	1461.1	1470.4
17.5°	1404.9	1407.2	1418.0	1435.7	1448.8
20°	1367.8	1372.5	1385.6	1407.9	1421.0
22.5°	1327.0	1332.4	1348.6	1375.6	1391.7
25°	1280.7	1286.1	1306.9	1337.8	1354.7
27.5°	1228.3	1236.8	1259.9	1293.8	1317.0
30°	1172.8	1179.7	1205.9	1244.5	1263.7
32.5°	1113.4	1121.9	1146.5	1183.6	1200.5
35°	1050.9	1055.6	1080.2	1112.6	1135.0
37.5°	980.0	982.3	1005.4	1035.5	1055.6
40°	903.7	905.2	926.0	954.6	972.3
42.5°	824.3	825.0	847.4	869.0	884.4
45°	741.0	749.5	768.0	786.5	795.7
47.5°	666.2	672.4	689.3	705.5	714.0
50°	588.3	603.7	615.3	623.8	633.8
52.5°	521.2	534.3	537.4	547.4	555.9
55°	456.5	465.7	462.6	471.1	479.6
57.5°	401.7	397.1	387.1	401.7	412.5
60°	350.1	337.7	320.8	340.8	357.0
62.5°	303.8	283.7	262.9	283.0	310.0
65°	262.9	242.1	216.7	235.9	264.5
67.5°	232.1	210.5	180.4	199.7	228.2
70°	209.0	186.6	155.8	171.9	197.4
72.5°	190.4	166.5	139.6	150.4	171.9
75°	172.7	148.8	129.5	132.6	152.7
77.5°	151.9	134.2	118.7	117.2	132.6
80°	127.2	121.8	103.3	101.0	109.5
82.5°	104.9	102.5	84.8	82.5	85.6
85°	76.3	79.4	60.1	58.6	61.7
87.5°	40.1	43.9	31.6	33.2	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)