

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: P292387

Luminaire Tested: **22GR-LD5-32-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292387
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-LD5-32-A125-UNV-L82765-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3258.0 lumens
Efficiency: N/A
Efficacy: 130.2 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

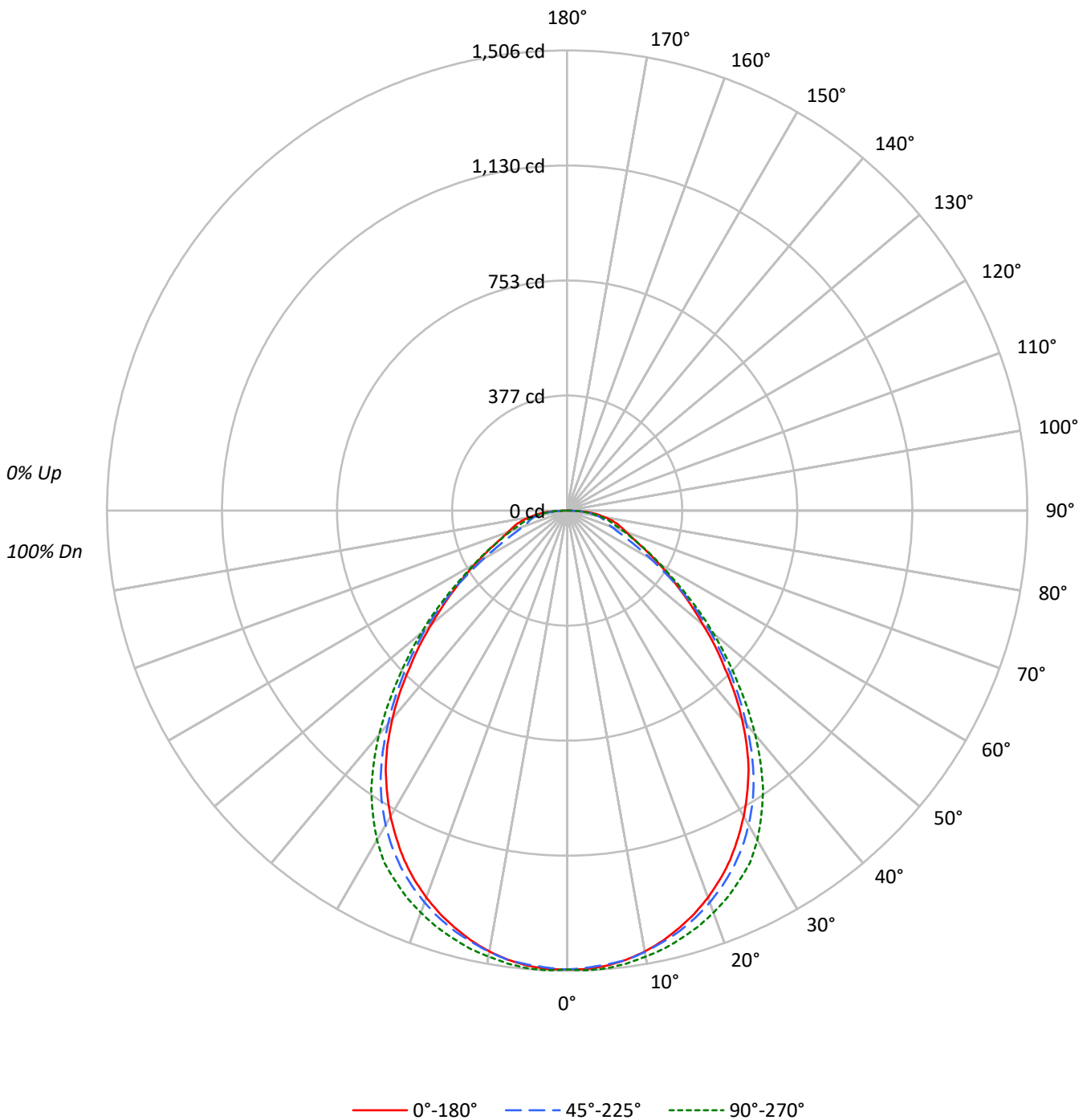
Input Watts (W): 25.017
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4041	4041	4041
5°	4038	4028	4061
10°	4004	4008	4050
15°	3940	3968	4036
20°	3859	3909	4009
25°	3746	3823	3963
30°	3590	3692	3869
35°	3401	3496	3673
40°	3127	3205	3365
45°	2778	2879	2983
50°	2426	2538	2614
55°	2110	2138	2217
60°	1856	1701	1893
65°	1649	1359	1659
70°	1620	1207	1530
75°	1770	1327	1564
80°	1942	1578	1672
85°	2322	1831	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	4.4
10°-20°	402.5	12.4
20°-30°	594.2	18.2
30°-40°	664.9	20.4
40°-50°	583.9	17.9
50°-60°	413.2	12.7
60°-70°	240.5	7.4
70°-80°	149.9	4.6
80°-90°	67.1	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°	1138.6	34.9
0°-40°	1803.5	55.4
0°-60°	2800.6	86.0
0°-90°	3258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1502	1502	1502	1502	1502	
5°	1495	1491	1491	1499	1503	142
15°	1414	1418	1424	1440	1449	399
25°	1262	1267	1288	1318	1335	580
35°	1035	1040	1064	1096	1118	644
45°	730	738	757	775	784	565
55°	450	459	456	464	472	406
65°	259	238	214	232	261	263
75°	170	147	128	131	150	178
85°	75	78	59	58	61	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1501.8	1501.8	1501.8	1501.8	1501.8
2.5°	1501.8	1498.7	1497.2	1502.5	1505.6
5°	1494.9	1491.1	1491.1	1498.7	1503.3
7.5°	1482.8	1479.0	1483.5	1490.4	1494.9
10°	1465.3	1463.8	1466.8	1475.9	1482.0
12.5°	1442.5	1443.3	1446.3	1460.8	1468.4
15°	1414.4	1417.5	1424.3	1439.5	1448.6
17.5°	1384.0	1386.3	1396.9	1414.4	1427.3
20°	1347.6	1352.1	1365.0	1387.1	1400.0
22.5°	1307.3	1312.6	1328.6	1355.2	1371.1
25°	1261.7	1267.1	1287.6	1317.9	1334.7
27.5°	1210.1	1218.4	1241.2	1274.6	1297.4
30°	1155.4	1162.2	1188.1	1226.0	1245.0
32.5°	1096.9	1105.3	1129.6	1166.0	1182.7
35°	1035.4	1039.9	1064.2	1096.1	1118.2
37.5°	965.5	967.8	990.5	1020.2	1039.9
40°	890.3	891.8	912.3	940.4	957.9
42.5°	812.0	812.8	834.8	856.1	871.3
45°	730.0	738.4	756.6	774.8	783.9
47.5°	656.3	662.4	679.1	695.1	703.4
50°	579.6	594.8	606.2	614.5	624.4
52.5°	513.5	526.4	529.5	539.3	547.7
55°	449.7	458.8	455.8	464.1	472.5
57.5°	395.8	391.2	381.3	395.8	406.4
60°	344.9	332.7	316.0	335.8	351.7
62.5°	299.3	279.5	259.0	278.8	305.4
65°	259.0	238.5	213.5	232.4	260.6
67.5°	228.6	207.4	177.8	196.7	224.8
70°	205.9	183.8	153.4	169.4	194.5
72.5°	187.6	164.1	137.5	148.1	169.4
75°	170.2	146.6	127.6	130.7	150.4
77.5°	149.6	132.2	117.0	115.5	130.7
80°	125.3	120.0	101.8	99.5	107.9
82.5°	103.3	101.0	83.6	81.3	84.3
85°	75.2	78.2	59.3	57.7	60.8
87.5°	39.5	43.3	31.1	32.7	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)