

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: P292304

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-A-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3313.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

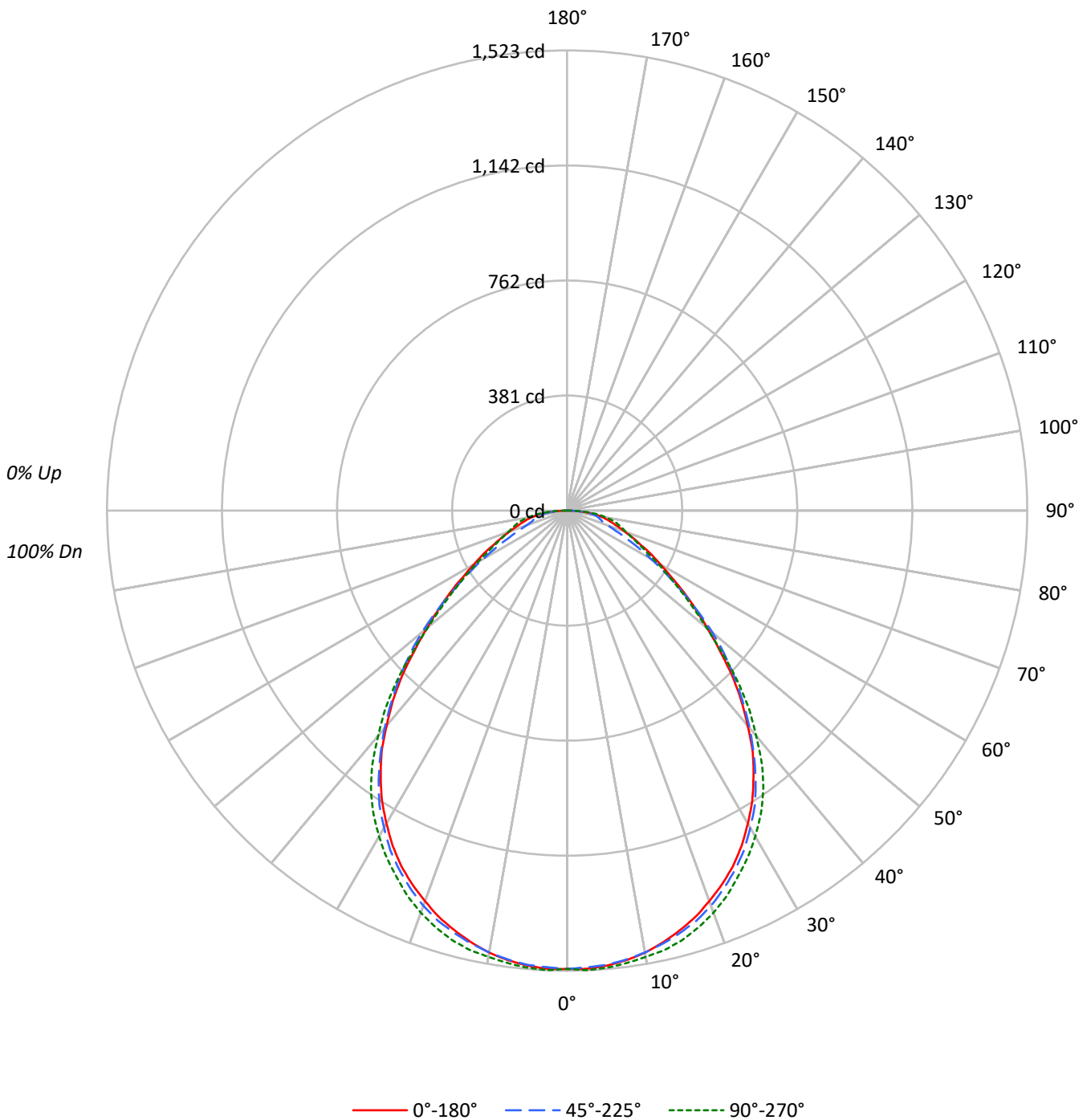
Input Watts (W): 32.085
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76					74				
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66					64				
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58					56				
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51					49				
6	74	62	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	53	46	42	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	35	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					30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4083	4083	4083
5°	4084	4078	4103
10°	4059	4057	4097
15°	4008	4029	4100
20°	3939	3985	4056
25°	3855	3898	3969
30°	3715	3766	3869
35°	3533	3574	3718
40°	3266	3301	3418
45°	2934	2987	3034
50°	2537	2627	2511
55°	2213	2156	2127
60°	1917	1726	1842
65°	1713	1355	1654
70°	1589	1122	1632
75°	1587	1186	1811
80°	1756	1494	2042
85°	1834	1618	2309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	4.3
10°-20°	408.9	12.3
20°-30°	604.8	18.3
30°-40°	682.5	20.6
40°-50°	601.6	18.2
50°-60°	412.7	12.5
60°-70°	243.5	7.4
70°-80°	152.0	4.6
80°-90°	63.4	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°	1157.3	34.9
0°-40°	1839.8	55.5
0°-60°	2854.1	86.1
0°-90°	3313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1517	1517	1517	1517	1517	
5°	1512	1509	1510	1515	1519	143
15°	1439	1440	1446	1464	1472	405
25°	1298	1303	1313	1330	1337	596
35°	1076	1085	1088	1114	1132	670
45°	771	775	785	790	797	592
55°	472	460	460	444	453	423
65°	269	237	213	246	260	271
75°	153	137	114	160	174	164
85°	59	56	52	69	75	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1517.2	1517.2	1517.2	1517.2	1517.2
2.5°	1518.0	1514.2	1512.6	1518.8	1522.6
5°	1511.8	1508.8	1509.5	1514.9	1518.8
7.5°	1501.0	1498.7	1498.7	1506.4	1510.3
10°	1485.6	1484.9	1484.9	1494.1	1499.5
12.5°	1464.0	1464.8	1467.9	1480.2	1489.5
15°	1438.6	1440.1	1446.3	1464.0	1471.7
17.5°	1410.8	1410.8	1423.2	1437.1	1446.3
20°	1375.4	1377.7	1391.6	1407.0	1416.2
22.5°	1339.1	1343.0	1354.6	1372.3	1380.8
25°	1298.3	1302.9	1312.9	1329.9	1336.8
27.5°	1250.5	1256.7	1267.4	1279.8	1294.4
30°	1195.7	1205.0	1211.9	1228.9	1245.1
32.5°	1140.2	1148.7	1156.4	1174.2	1192.7
35°	1075.5	1084.7	1087.8	1114.0	1131.8
37.5°	1009.2	1013.0	1014.6	1040.8	1060.1
40°	929.8	937.5	939.8	960.6	972.9
42.5°	853.4	856.5	861.2	876.6	891.2
45°	771.0	774.8	784.8	789.5	797.2
47.5°	684.6	696.2	707.7	693.1	693.9
50°	606.0	615.2	627.6	599.8	599.8
52.5°	535.8	540.4	541.2	518.1	522.7
55°	471.8	460.3	459.5	444.1	453.3
57.5°	407.8	392.4	387.0	382.4	393.2
60°	356.2	328.4	320.7	327.7	342.3
62.5°	313.8	278.3	263.7	281.4	294.5
65°	269.1	236.7	212.8	245.9	259.8
67.5°	234.4	203.5	172.7	219.7	229.7
70°	202.0	178.1	142.6	199.7	207.4
72.5°	175.8	157.3	123.4	180.4	189.7
75°	152.6	137.2	114.1	159.6	174.2
77.5°	134.1	117.2	106.4	138.0	155.7
80°	113.3	96.4	96.4	115.6	131.8
82.5°	89.4	75.6	77.9	94.1	105.6
85°	59.4	55.5	52.4	68.6	74.8
87.5°	30.1	30.8	27.8	35.5	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)