

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: P292307

Luminaire Tested: **22GR-LD5-40-A-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292307
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-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3684.0 lumens
Efficiency: N/A
Efficacy: 111.6 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

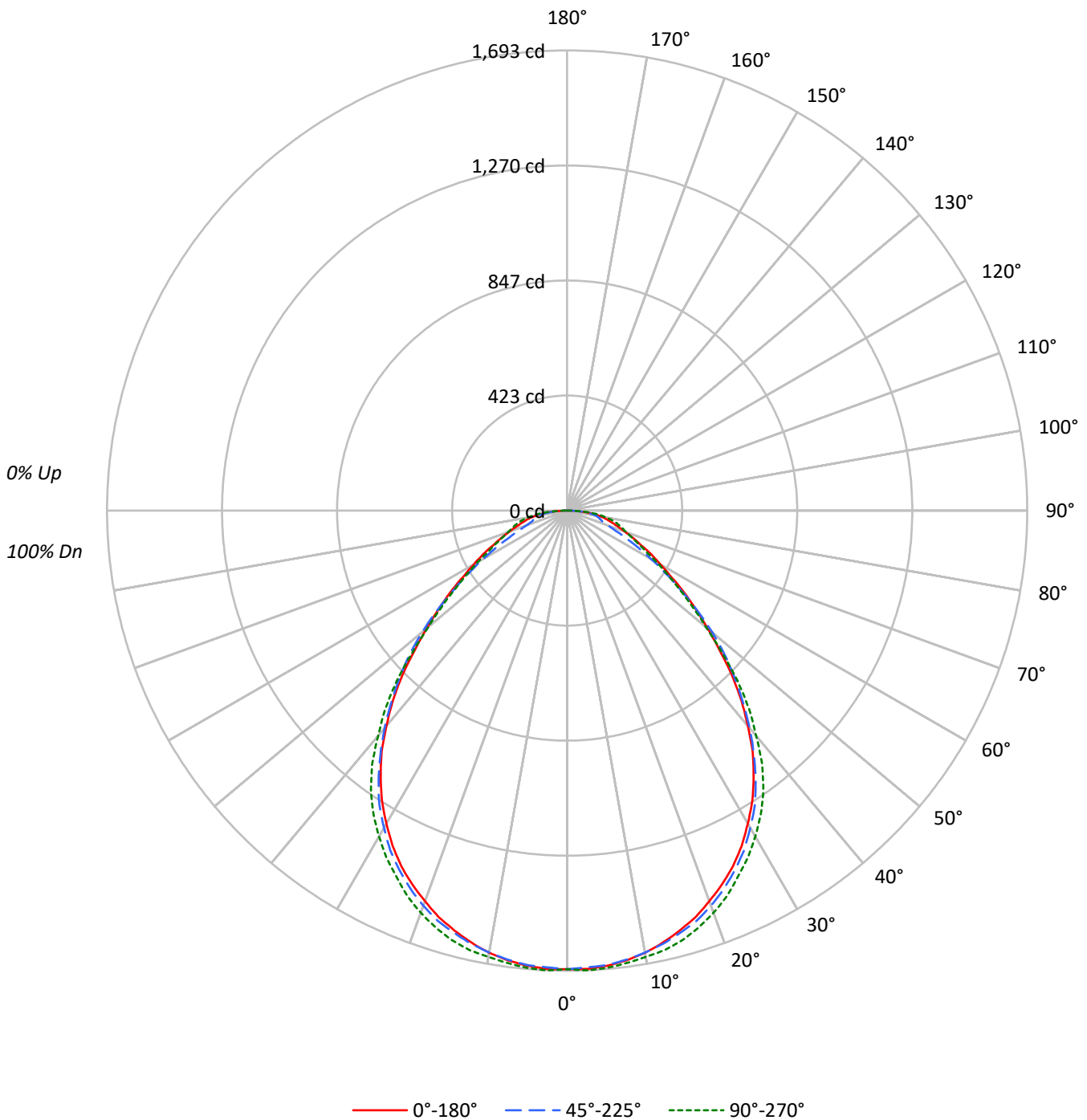
Input Watts (W): 33.015
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4540	4540	4540
5°	4541	4534	4562
10°	4514	4512	4556
15°	4457	4481	4559
20°	4380	4431	4510
25°	4287	4335	4414
30°	4132	4188	4302
35°	3929	3974	4134
40°	3632	3671	3801
45°	3263	3321	3373
50°	2821	2921	2792
55°	2462	2397	2365
60°	2132	1919	2048
65°	1905	1507	1840
70°	1767	1248	1814
75°	1764	1319	2014
80°	1953	1661	2272
85°	2038	1800	2569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.7	4.3
10°-20°	454.7	12.3
20°-30°	672.5	18.3
30°-40°	758.9	20.6
40°-50°	669.0	18.2
50°-60°	458.9	12.5
60°-70°	270.8	7.4
70°-80°	169.0	4.6
80°-90°	70.5	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°	1286.9	34.9
0°-40°	2045.8	55.5
0°-60°	3173.7	86.1
0°-90°	3684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3684.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1681	1678	1679	1685	1689	160
15°	1600	1601	1608	1628	1637	451
25°	1444	1449	1460	1479	1486	663
35°	1196	1206	1210	1239	1258	745
45°	857	862	873	878	886	659
55°	525	512	511	494	504	471
65°	299	263	237	274	289	301
75°	170	153	127	178	194	182
85°	66	62	58	76	83	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1687.1	1687.1	1687.1	1687.1	1687.1
2.5°	1688.0	1683.7	1682.0	1688.9	1693.1
5°	1681.1	1677.7	1678.6	1684.6	1688.9
7.5°	1669.1	1666.6	1666.6	1675.1	1679.4
10°	1652.0	1651.1	1651.1	1661.4	1667.4
12.5°	1628.0	1628.8	1632.3	1646.0	1656.3
15°	1599.7	1601.4	1608.3	1628.0	1636.6
17.5°	1568.8	1568.8	1582.5	1598.0	1608.3
20°	1529.4	1532.0	1547.4	1564.5	1574.8
22.5°	1489.1	1493.4	1506.3	1526.0	1535.4
25°	1443.7	1448.8	1460.0	1478.8	1486.5
27.5°	1390.5	1397.4	1409.4	1423.1	1439.4
30°	1329.7	1339.9	1347.7	1366.5	1384.5
32.5°	1267.9	1277.4	1285.9	1305.6	1326.2
35°	1195.9	1206.2	1209.6	1238.8	1258.5
37.5°	1122.2	1126.5	1128.2	1157.3	1178.8
40°	1033.9	1042.5	1045.0	1068.2	1081.9
42.5°	949.0	952.4	957.6	974.7	991.0
45°	857.3	861.6	872.7	877.9	886.4
47.5°	761.3	774.1	787.0	770.7	771.6
50°	673.8	684.1	697.8	667.0	667.0
52.5°	595.8	601.0	601.8	576.1	581.2
55°	524.7	511.8	510.9	493.8	504.1
57.5°	453.5	436.4	430.4	425.2	437.2
60°	396.1	365.2	356.6	364.3	380.6
62.5°	348.9	309.5	293.2	312.9	327.5
65°	299.2	263.2	236.6	273.5	288.9
67.5°	260.6	226.3	192.0	244.3	255.5
70°	224.6	198.0	158.6	222.0	230.6
72.5°	195.5	174.9	137.2	200.6	210.9
75°	169.7	152.6	126.9	177.5	193.7
77.5°	149.2	130.3	118.3	153.5	173.2
80°	126.0	107.2	107.2	128.6	146.6
82.5°	99.4	84.0	86.6	104.6	117.4
85°	66.0	61.7	58.3	76.3	83.2
87.5°	33.4	34.3	30.9	39.4	40.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)