

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: P292305

Luminaire Tested: **22GR-LD5-40-A-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292305
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-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3479.0 lumens
Efficiency: N/A
Efficacy: 107.2 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

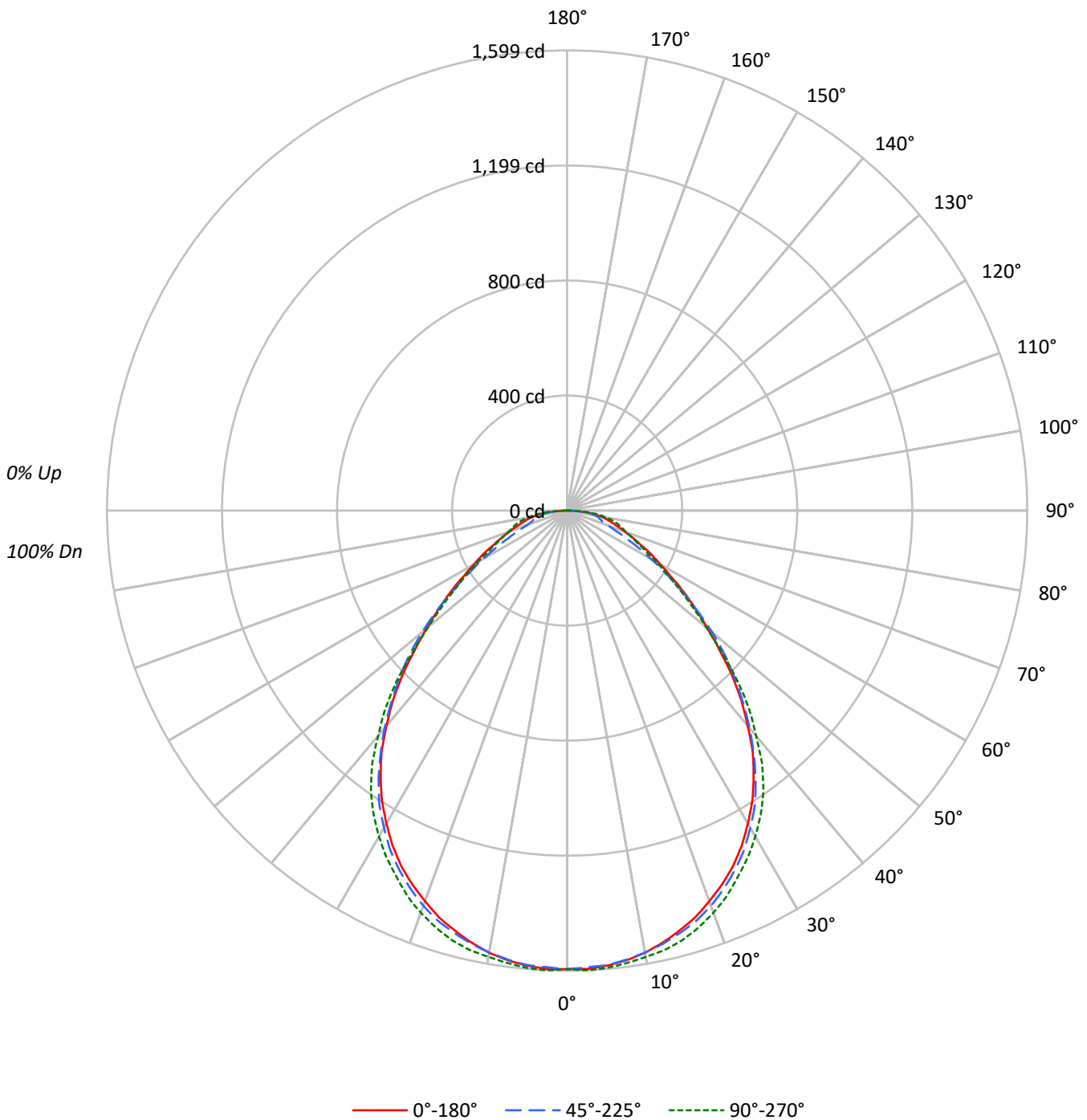
Input Watts (W): 32.457
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4288	4288	4288
5°	4289	4282	4308
10°	4263	4261	4303
15°	4209	4231	4306
20°	4136	4185	4259
25°	4048	4094	4168
30°	3902	3955	4063
35°	3710	3753	3904
40°	3430	3467	3589
45°	3081	3137	3186
50°	2664	2759	2637
55°	2325	2264	2233
60°	2013	1813	1935
65°	1799	1422	1737
70°	1669	1179	1714
75°	1667	1246	1903
80°	1844	1568	2145
85°	1924	1701	2424



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	4.3
10°-20°	429.4	12.3
20°-30°	635.1	18.3
30°-40°	716.7	20.6
40°-50°	631.8	18.2
50°-60°	433.4	12.5
60°-70°	255.7	7.4
70°-80°	159.6	4.6
80°-90°	66.5	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°	1215.3	34.9
0°-40°	1932.0	55.5
0°-60°	2997.1	86.1
0°-90°	3479.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3479.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1593	1593	1593	1593	1593	
5°	1588	1584	1585	1591	1595	151
15°	1511	1512	1519	1537	1546	426
25°	1363	1368	1379	1396	1404	626
35°	1129	1139	1142	1170	1188	704
45°	810	814	824	829	837	622
55°	496	483	482	466	476	444
65°	282	248	223	258	273	285
75°	160	144	120	168	183	172
85°	62	58	55	72	78	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.3	1593.3	1593.3	1593.3	1593.3
2.5°	1594.1	1590.0	1588.4	1594.9	1598.9
5°	1587.6	1584.4	1585.2	1590.8	1594.9
7.5°	1576.3	1573.8	1573.8	1581.9	1586.0
10°	1560.1	1559.3	1559.3	1569.0	1574.6
12.5°	1537.4	1538.2	1541.4	1554.4	1564.1
15°	1510.7	1512.3	1518.8	1537.4	1545.5
17.5°	1481.5	1481.5	1494.5	1509.1	1518.8
20°	1444.3	1446.7	1461.3	1477.5	1487.2
22.5°	1406.2	1410.3	1422.4	1441.1	1450.0
25°	1363.3	1368.2	1378.7	1396.5	1403.8
27.5°	1313.1	1319.6	1331.0	1343.9	1359.3
30°	1255.7	1265.4	1272.7	1290.5	1307.5
32.5°	1197.4	1206.3	1214.4	1233.0	1252.4
35°	1129.4	1139.1	1142.3	1169.8	1188.5
37.5°	1059.7	1063.8	1065.4	1092.9	1113.2
40°	976.4	984.5	986.9	1008.7	1021.7
42.5°	896.2	899.4	904.3	920.5	935.9
45°	809.6	813.6	824.2	829.0	837.1
47.5°	718.9	731.1	743.2	727.8	728.6
50°	636.3	646.0	659.0	629.9	629.9
52.5°	562.7	567.5	568.3	544.0	548.9
55°	495.5	483.3	482.5	466.3	476.0
57.5°	428.3	412.1	406.4	401.6	412.9
60°	374.0	344.9	336.8	344.1	359.5
62.5°	329.5	292.3	276.9	295.5	309.3
65°	282.5	248.5	223.4	258.3	272.8
67.5°	246.1	213.7	181.3	230.7	241.3
70°	212.1	187.0	149.8	209.7	217.8
72.5°	184.6	165.2	129.5	189.4	199.2
75°	160.3	144.1	119.8	167.6	183.0
77.5°	140.9	123.1	111.7	144.9	163.5
80°	119.0	101.2	101.2	121.4	138.4
82.5°	93.9	79.3	81.8	98.8	110.9
85°	62.3	58.3	55.1	72.1	78.5
87.5°	31.6	32.4	29.1	37.2	38.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)