

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: P292303

Luminaire Tested: **22GR-LD5-40-A-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292303
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-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3186.0 lumens
Efficiency: N/A
Efficacy: 98.7 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

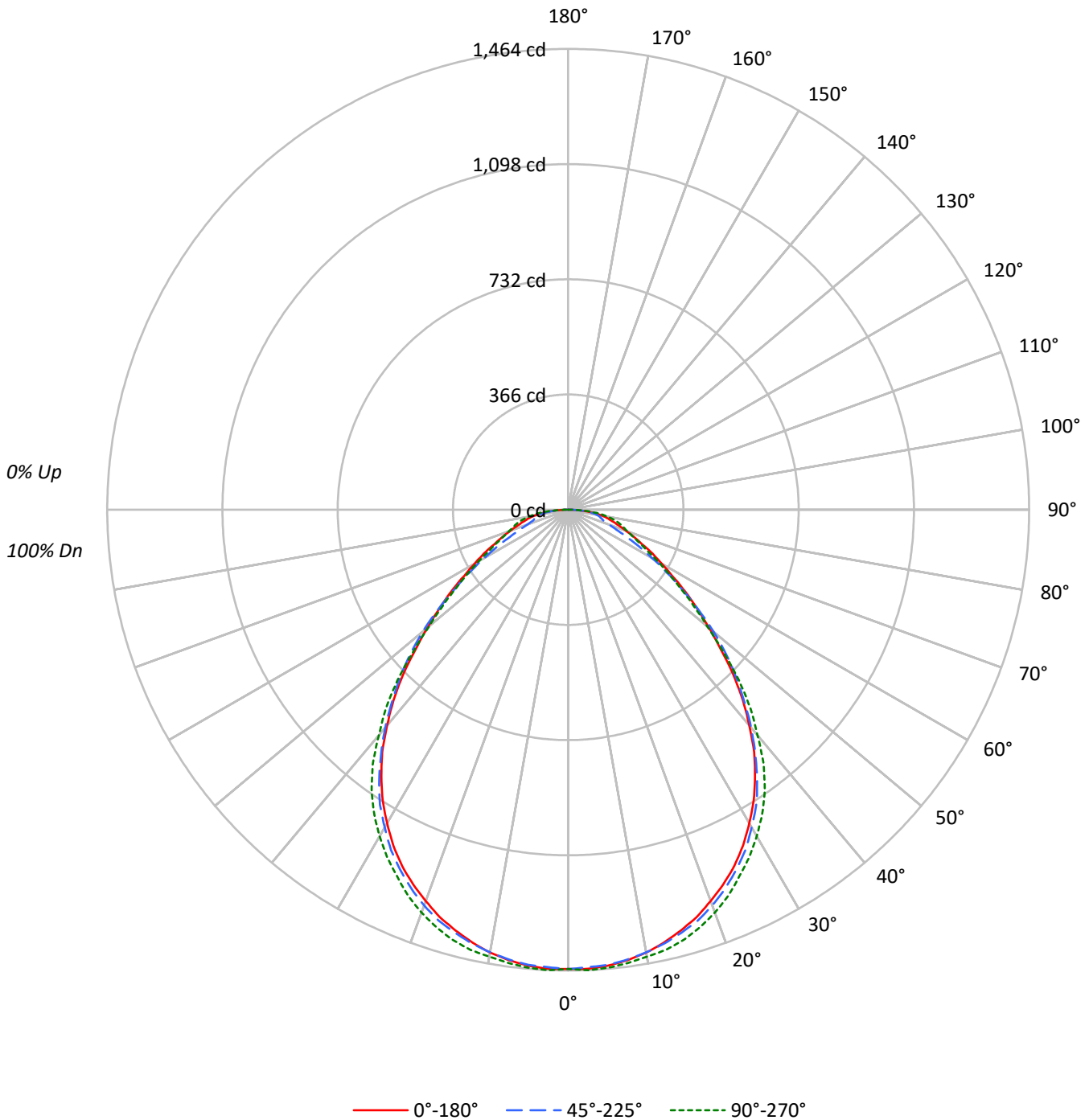
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3926	3926	3926
5°	3927	3921	3945
10°	3904	3902	3940
15°	3854	3875	3943
20°	3788	3832	3900
25°	3707	3749	3817
30°	3573	3622	3721
35°	3398	3437	3575
40°	3141	3175	3287
45°	2821	2872	2917
50°	2439	2527	2415
55°	2129	2073	2045
60°	1843	1660	1772
65°	1647	1303	1591
70°	1528	1079	1569
75°	1526	1141	1743
80°	1689	1437	1965
85°	1763	1556	2220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.1	4.3
10°-20°	393.3	12.3
20°-30°	581.6	18.3
30°-40°	656.3	20.6
40°-50°	578.6	18.2
50°-60°	396.9	12.5
60°-70°	234.2	7.4
70°-80°	146.1	4.6
80°-90°	61.0	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°	1112.9	34.9
0°-40°	1769.3	55.5
0°-60°	2744.7	86.1
0°-90°	3186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1459	1459	1459	1459	1459	
5°	1454	1451	1452	1457	1461	138
15°	1384	1385	1391	1408	1415	390
25°	1248	1253	1263	1279	1286	573
35°	1034	1043	1046	1071	1088	644
45°	741	745	755	759	767	570
55°	454	443	442	427	436	407
65°	259	228	205	236	250	261
75°	147	132	110	154	168	157
85°	57	53	50	66	72	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1459.1	1459.1	1459.1	1459.1	1459.1
2.5°	1459.8	1456.1	1454.6	1460.6	1464.3
5°	1453.9	1450.9	1451.7	1456.8	1460.6
7.5°	1443.5	1441.3	1441.3	1448.7	1452.4
10°	1428.7	1427.9	1427.9	1436.8	1442.0
12.5°	1407.9	1408.7	1411.6	1423.5	1432.4
15°	1383.5	1384.9	1390.9	1407.9	1415.3
17.5°	1356.8	1356.8	1368.6	1382.0	1390.9
20°	1322.7	1324.9	1338.2	1353.1	1361.9
22.5°	1287.8	1291.5	1302.6	1319.7	1327.8
25°	1248.5	1253.0	1262.6	1278.9	1285.6
27.5°	1202.5	1208.5	1218.9	1230.7	1244.8
30°	1149.9	1158.8	1165.5	1181.8	1197.4
32.5°	1096.5	1104.7	1112.1	1129.2	1146.9
35°	1034.3	1043.1	1046.1	1071.3	1088.4
37.5°	970.5	974.2	975.7	1000.9	1019.4
40°	894.1	901.5	903.8	923.8	935.6
42.5°	820.7	823.7	828.1	843.0	857.1
45°	741.4	745.1	754.7	759.2	766.6
47.5°	658.4	669.5	680.6	666.5	667.3
50°	582.7	591.6	603.5	576.8	576.8
52.5°	515.3	519.7	520.5	498.2	502.7
55°	453.7	442.6	441.9	427.0	435.9
57.5°	392.2	377.4	372.2	367.7	378.1
60°	342.5	315.8	308.4	315.1	329.2
62.5°	301.7	267.6	253.6	270.6	283.2
65°	258.7	227.6	204.6	236.5	249.9
67.5°	225.4	195.7	166.1	211.3	220.9
70°	194.2	171.3	137.2	192.0	199.4
72.5°	169.0	151.2	118.6	173.5	182.4
75°	146.8	132.0	109.7	153.5	167.6
77.5°	129.0	112.7	102.3	132.7	149.8
80°	109.0	92.7	92.7	111.2	126.8
82.5°	86.0	72.7	74.9	90.5	101.6
85°	57.1	53.4	50.4	66.0	71.9
87.5°	28.9	29.7	26.7	34.1	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)