

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: P292205

Luminaire Tested: **22GR-LD5-40-A-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292205
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-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3731.0 lumens
Efficiency: N/A
Efficacy: 115.3 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

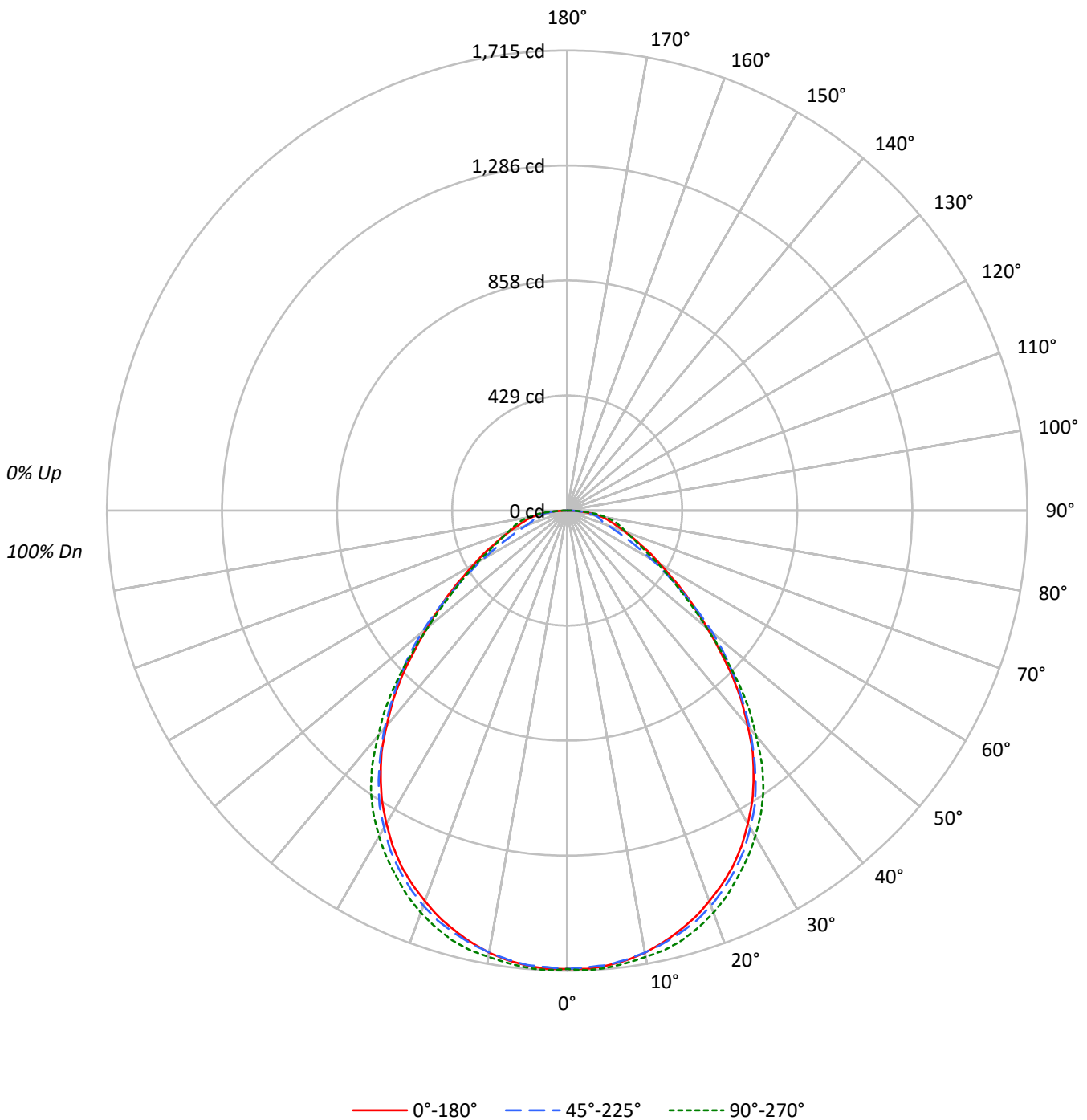
Input Watts (W): 32.364
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4598	4598	4598
5°	4599	4592	4620
10°	4572	4569	4614
15°	4513	4538	4617
20°	4436	4488	4567
25°	4341	4390	4470
30°	4184	4241	4357
35°	3979	4025	4187
40°	3678	3718	3849
45°	3304	3364	3416
50°	2857	2959	2828
55°	2493	2428	2395
60°	2159	1944	2075
65°	1929	1526	1863
70°	1790	1264	1838
75°	1787	1336	2040
80°	1977	1681	2301
85°	2066	1822	2600



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	4.3
10°-20°	460.5	12.3
20°-30°	681.1	18.3
30°-40°	768.6	20.6
40°-50°	677.5	18.2
50°-60°	464.8	12.5
60°-70°	274.3	7.4
70°-80°	171.1	4.6
80°-90°	71.4	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°	1303.3	34.9
0°-40°	2071.9	55.5
0°-60°	3214.2	86.1
0°-90°	3731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1709	1709	1709	1709	1709	
5°	1703	1699	1700	1706	1710	162
15°	1620	1622	1629	1649	1657	457
25°	1462	1467	1479	1498	1506	671
35°	1211	1222	1225	1255	1275	755
45°	868	873	884	889	898	667
55°	531	518	518	500	510	477
65°	303	266	240	277	293	305
75°	172	154	128	180	196	184
85°	67	62	59	77	84	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1708.7	1708.7	1708.7	1708.7	1708.7
2.5°	1709.5	1705.2	1703.5	1710.4	1714.7
5°	1702.6	1699.1	1700.0	1706.1	1710.4
7.5°	1690.4	1687.8	1687.8	1696.5	1700.8
10°	1673.1	1672.2	1672.2	1682.6	1688.7
12.5°	1648.8	1649.6	1653.1	1667.0	1677.4
15°	1620.1	1621.8	1628.8	1648.8	1657.4
17.5°	1588.8	1588.8	1602.7	1618.4	1628.8
20°	1548.9	1551.5	1567.1	1584.5	1594.9
22.5°	1508.1	1512.4	1525.5	1545.4	1555.0
25°	1462.1	1467.3	1478.6	1497.7	1505.5
27.5°	1408.3	1415.2	1427.4	1441.3	1457.7
30°	1346.6	1357.0	1364.8	1383.9	1402.2
32.5°	1284.1	1293.7	1302.3	1322.3	1343.1
35°	1211.2	1221.6	1225.1	1254.6	1274.6
37.5°	1136.5	1140.8	1142.6	1172.1	1193.8
40°	1047.1	1055.8	1058.4	1081.8	1095.7
42.5°	961.1	964.6	969.8	987.2	1003.7
45°	868.2	872.6	883.9	889.1	897.7
47.5°	771.0	784.0	797.0	780.5	781.4
50°	682.4	692.8	706.7	675.5	675.5
52.5°	603.4	608.6	609.5	583.4	588.7
55°	531.4	518.3	517.5	500.1	510.5
57.5°	459.3	441.9	435.8	430.6	442.8
60°	401.1	369.9	361.2	369.0	385.5
62.5°	353.4	313.4	296.9	316.9	331.7
65°	303.0	266.5	239.6	277.0	292.6
67.5°	263.9	229.2	194.5	247.4	258.7
70°	227.5	200.6	160.6	224.9	233.6
72.5°	198.0	177.1	138.9	203.2	213.6
75°	171.9	154.5	128.5	179.7	196.2
77.5°	151.1	132.0	119.8	155.4	175.4
80°	127.6	108.5	108.5	130.2	148.5
82.5°	100.7	85.1	87.7	105.9	118.9
85°	66.9	62.5	59.0	77.3	84.2
87.5°	33.9	34.7	31.3	39.9	40.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)