

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: P291928

Luminaire Tested: **22GR-LD5-43-F1-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-F1-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4132.0 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

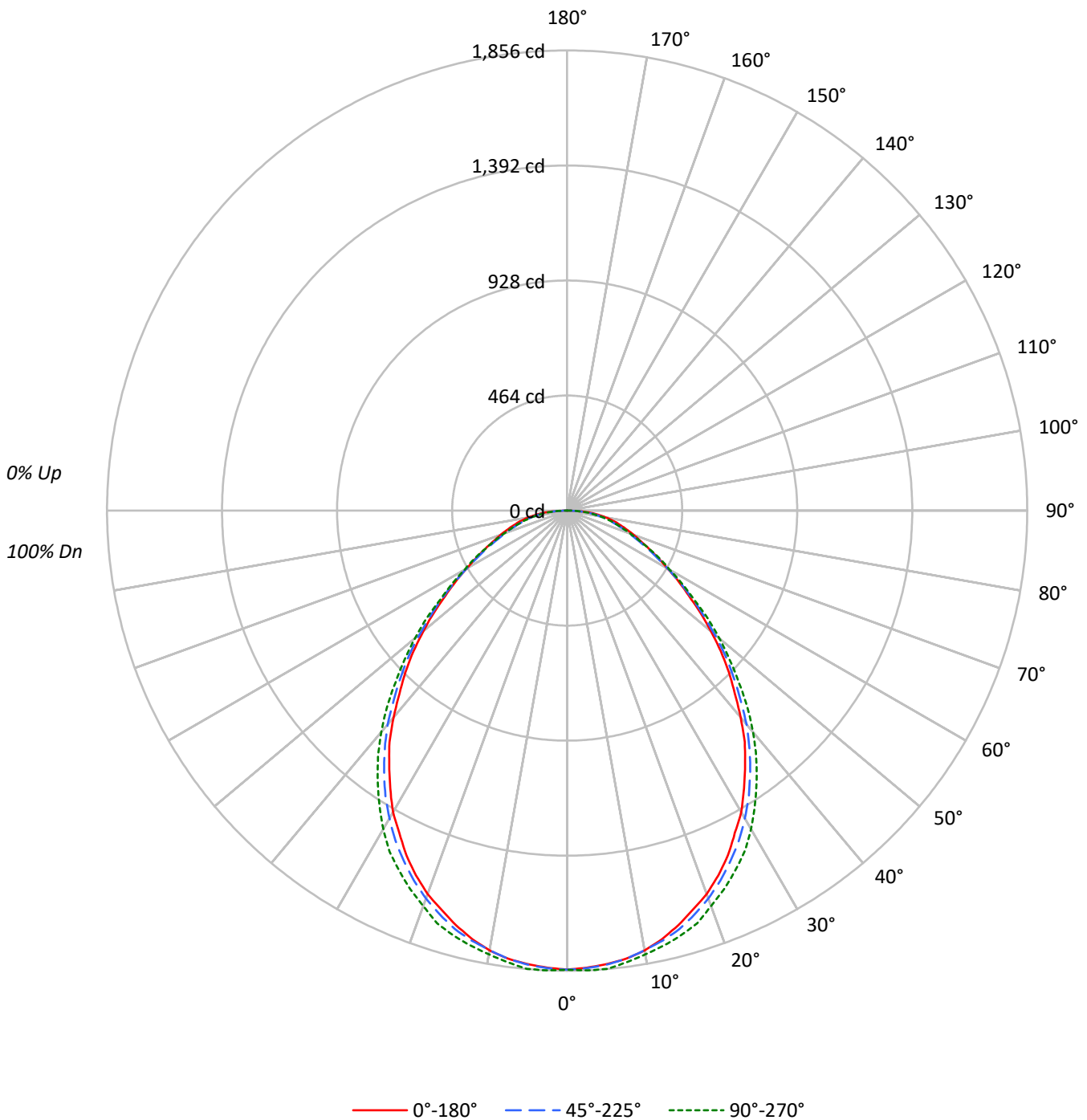
Input Watts (W): 36.828
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291928

CATALOG NUMBER: 22GR-LD5-43-F1-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P291928

CATALOG NUMBER: 22GR-LD5-43-F1-UNV-L92765-W2A1-U-6500K

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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38					38			
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34					34			
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4983	4983	4983
5°	4961	4966	5012
10°	4922	4920	4966
15°	4823	4870	4942
20°	4713	4767	4859
25°	4556	4630	4760
30°	4364	4453	4609
35°	4109	4228	4377
40°	3824	3954	4097
45°	3511	3612	3724
50°	3167	3246	3350
55°	2810	2876	2925
60°	2518	2523	2574
65°	2320	2242	2320
70°	2240	2076	2135
75°	2279	2033	2072
80°	2456	2132	2132
85°	2726	2257	2226



TEST NUMBER: P291928

CATALOG NUMBER: 22GR-LD5-43-F1-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.7	4.2
10°-20°	492.7	11.9
20°-30°	719.0	17.4
30°-40°	805.0	19.5
40°-50°	732.6	17.7
50°-60°	551.4	13.3
60°-70°	359.8	8.7
70°-80°	215.8	5.2
80°-90°	80.9	2.0
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°	1386.3	33.6
0°-40°	2191.3	53.0
0°-60°	3475.4	84.1
0°-90°	4132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4132.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1852	1852	1852	1852	1852	
5°	1836	1834	1838	1845	1855	174
15°	1731	1733	1748	1762	1774	488
25°	1535	1539	1559	1588	1603	705
35°	1251	1262	1287	1317	1332	782
45°	922	932	949	969	978	710
55°	599	607	613	622	624	541
65°	364	361	352	358	364	364
75°	219	212	196	196	199	233
85°	88	85	73	69	72	91
90°	0	0	0	0	0	



TEST NUMBER: P291928

CATALOG NUMBER: 22GR-LD5-43-F1-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1851.6	1851.6	1851.6	1851.6	1851.6
2.5°	1845.0	1844.0	1846.9	1851.6	1856.4
5°	1836.5	1833.6	1838.4	1845.0	1855.4
7.5°	1823.2	1823.2	1823.2	1835.5	1837.4
10°	1801.3	1803.2	1800.4	1812.7	1817.5
12.5°	1770.0	1771.0	1776.7	1789.0	1797.5
15°	1731.1	1733.0	1748.2	1762.4	1773.8
17.5°	1687.4	1694.1	1708.3	1731.1	1745.3
20°	1645.7	1653.3	1664.7	1689.3	1696.9
22.5°	1592.5	1601.1	1615.3	1637.1	1653.3
25°	1534.6	1539.4	1559.3	1587.8	1603.0
27.5°	1465.4	1475.8	1500.5	1529.9	1550.8
30°	1404.6	1410.3	1433.1	1467.3	1483.4
32.5°	1327.8	1344.8	1363.8	1394.2	1409.4
35°	1250.9	1262.3	1286.9	1317.3	1332.5
37.5°	1176.8	1183.5	1208.2	1233.8	1252.8
40°	1088.6	1100.9	1125.6	1153.1	1166.4
42.5°	1000.3	1018.4	1034.5	1062.0	1076.2
45°	922.5	932.0	949.1	969.0	978.5
47.5°	840.9	845.6	865.6	877.9	888.3
50°	756.4	762.1	775.4	787.7	800.1
52.5°	678.6	683.3	691.9	703.3	715.6
55°	598.9	607.4	613.1	621.6	623.5
57.5°	534.3	533.4	537.2	543.8	550.5
60°	467.9	469.8	468.8	475.5	478.3
62.5°	412.8	411.9	406.2	415.7	423.3
65°	364.4	360.6	352.1	357.8	364.4
67.5°	319.8	317.9	303.7	308.4	314.1
70°	284.7	278.1	263.8	266.7	271.4
72.5°	250.6	243.0	228.7	229.7	232.5
75°	219.2	211.6	195.5	196.5	199.3
77.5°	189.8	180.3	166.1	164.2	166.1
80°	158.5	150.0	137.6	131.9	137.6
82.5°	126.2	121.5	107.2	101.6	103.4
85°	88.3	85.4	73.1	69.3	72.1
87.5°	40.8	43.7	37.0	34.2	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)