

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: P291830

Luminaire Tested: **22GR-LD5-43-F1-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291830
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-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4551.0 lumens
Efficiency: N/A
Efficacy: 123.9 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

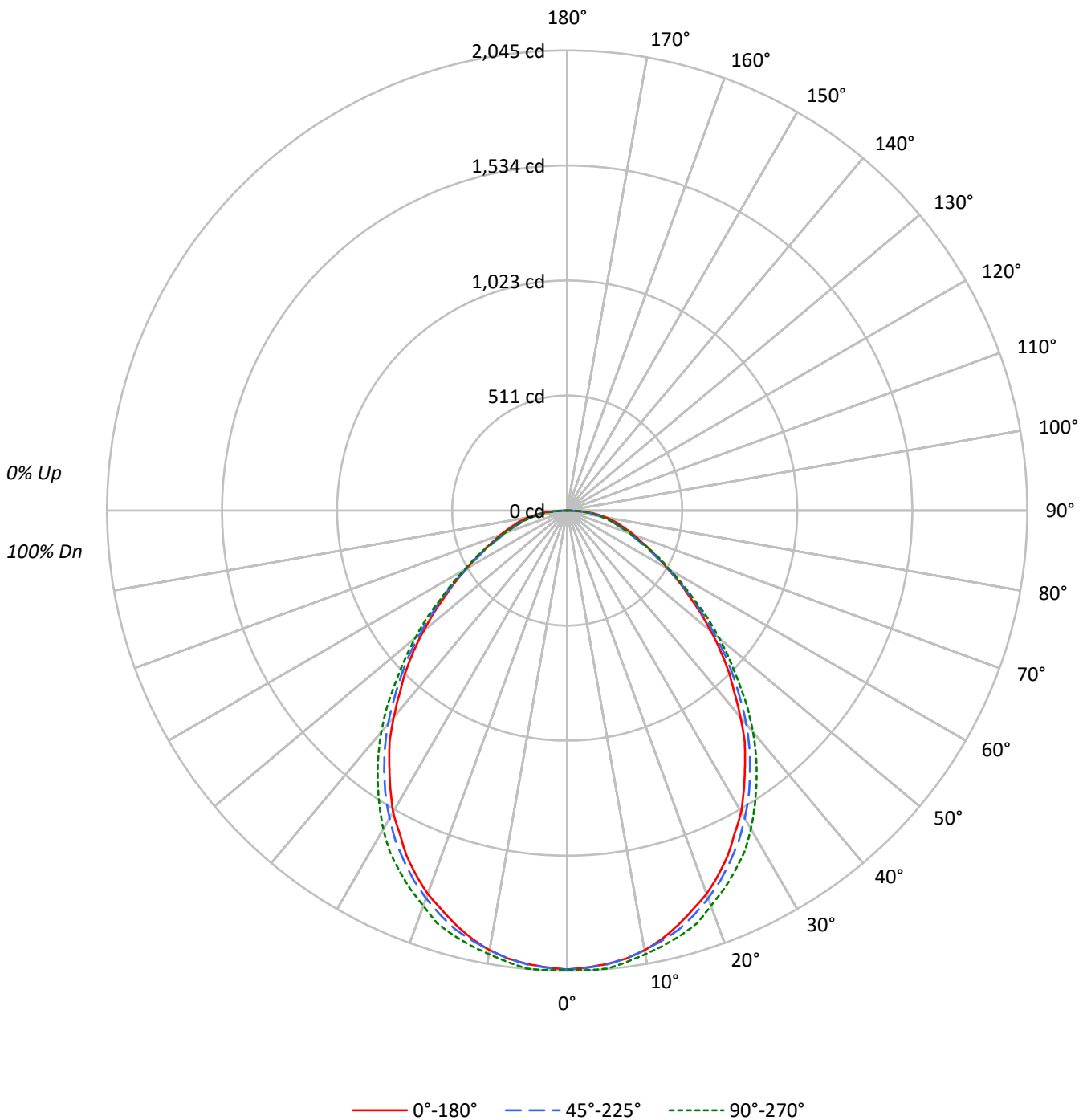
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5488	5488	5488
5°	5464	5470	5520
10°	5421	5419	5470
15°	5312	5364	5443
20°	5191	5251	5352
25°	5019	5099	5242
30°	4807	4905	5077
35°	4526	4656	4821
40°	4212	4355	4513
45°	3867	3978	4101
50°	3488	3575	3689
55°	3095	3168	3222
60°	2773	2779	2835
65°	2556	2469	2556
70°	2467	2286	2353
75°	2511	2239	2282
80°	2706	2349	2349
85°	3001	2485	2452



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.4	4.2
10°-20°	542.6	11.9
20°-30°	791.9	17.4
30°-40°	886.6	19.5
40°-50°	806.9	17.7
50°-60°	607.3	13.3
60°-70°	396.3	8.7
70°-80°	237.7	5.2
80°-90°	89.1	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°	1526.9	33.6
0°-40°	2413.6	53.0
0°-60°	3827.8	84.1
0°-90°	4551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2039	2039	2039	2039	2039	
5°	2023	2020	2025	2032	2044	192
15°	1907	1909	1926	1941	1954	537
25°	1690	1696	1717	1749	1766	776
35°	1378	1390	1417	1451	1468	861
45°	1016	1026	1045	1067	1078	782
55°	660	669	675	685	687	596
65°	401	397	388	394	401	401
75°	242	233	215	216	220	256
85°	97	94	80	76	79	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2039.4	2039.4	2039.4	2039.4	2039.4
2.5°	2032.1	2031.0	2034.2	2039.4	2044.6
5°	2022.7	2019.5	2024.8	2032.1	2043.6
7.5°	2008.0	2008.0	2008.0	2021.6	2023.7
10°	1984.0	1986.1	1983.0	1996.5	2001.8
12.5°	1949.5	1950.5	1956.8	1970.4	1979.8
15°	1906.6	1908.7	1925.5	1941.1	1953.7
17.5°	1858.6	1865.9	1881.6	1906.6	1922.3
20°	1812.6	1820.9	1833.5	1860.7	1869.0
22.5°	1754.0	1763.4	1779.1	1803.2	1820.9
25°	1690.3	1695.5	1717.4	1748.8	1765.5
27.5°	1614.0	1625.5	1652.6	1685.0	1708.0
30°	1547.1	1553.3	1578.4	1616.1	1633.8
32.5°	1462.4	1481.2	1502.1	1535.6	1552.3
35°	1377.7	1390.3	1417.4	1450.9	1467.6
37.5°	1296.2	1303.5	1330.7	1358.9	1379.8
40°	1199.0	1212.6	1239.7	1270.1	1284.7
42.5°	1101.8	1121.6	1139.4	1169.7	1185.4
45°	1016.0	1026.5	1045.3	1067.3	1077.7
47.5°	926.1	931.4	953.3	966.9	978.4
50°	833.1	839.4	854.0	867.6	881.2
52.5°	747.4	752.6	762.0	774.6	788.2
55°	659.6	669.0	675.3	684.7	686.8
57.5°	588.5	587.5	591.6	599.0	606.3
60°	515.3	517.4	516.4	523.7	526.8
62.5°	454.7	453.7	447.4	457.8	466.2
65°	401.4	397.2	387.8	394.1	401.4
67.5°	352.3	350.2	334.5	339.7	346.0
70°	313.6	306.3	290.6	293.7	299.0
72.5°	276.0	267.6	251.9	253.0	256.1
75°	241.5	233.1	215.3	216.4	219.5
77.5°	209.1	198.6	182.9	180.8	182.9
80°	174.6	165.2	151.6	145.3	151.6
82.5°	139.0	133.8	118.1	111.8	113.9
85°	97.2	94.1	80.5	76.3	79.4
87.5°	44.9	48.1	40.8	37.6	38.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)