

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: P291829

Luminaire Tested: **22GR-LD5-43-F1-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291829
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-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4539.0 lumens
Efficiency: N/A
Efficacy: 125.5 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

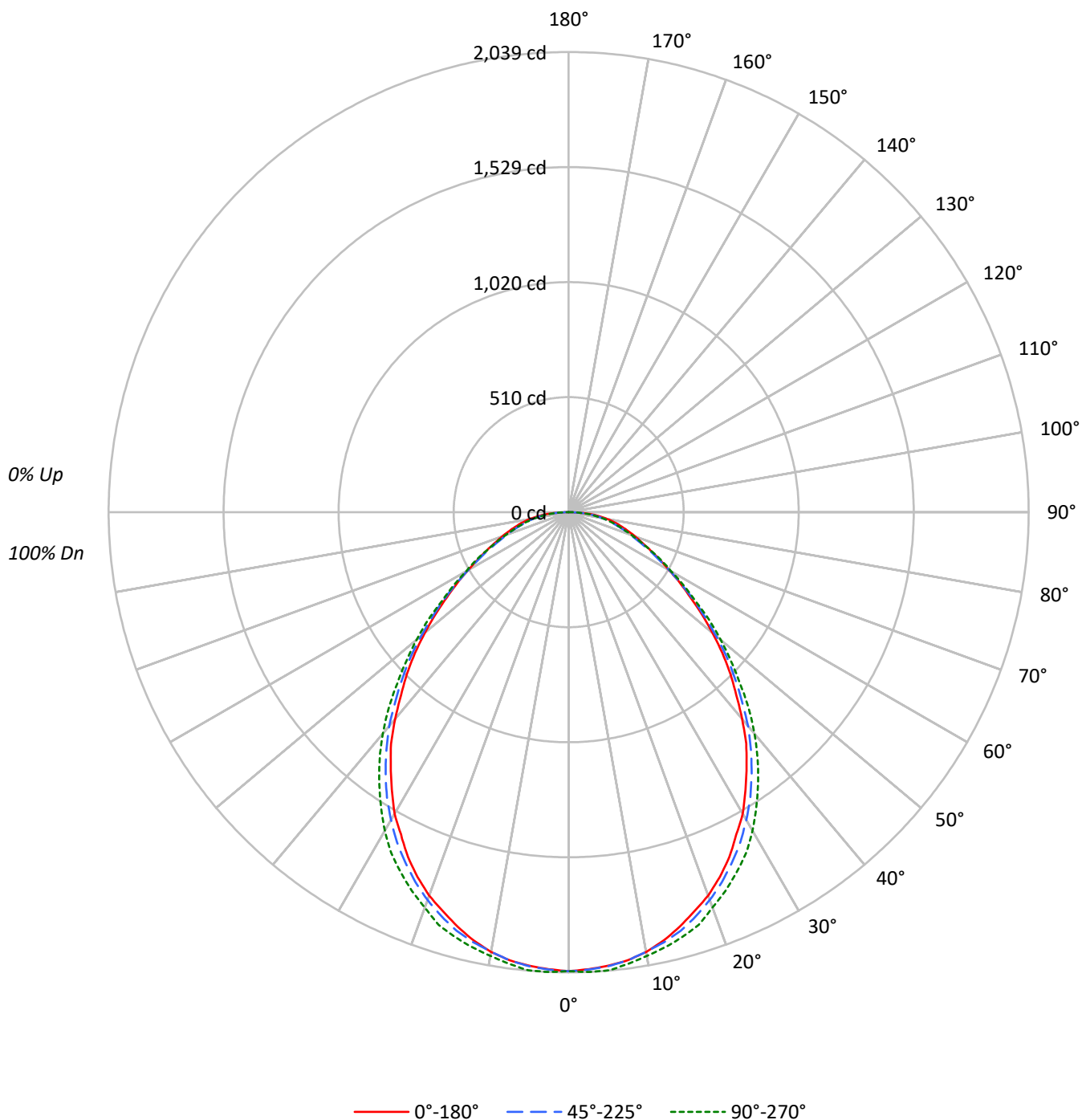
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	87
2	101	93	87	81	98	91	85	80		87	83	78		84	80	77		81	78	75
3	92	83	75	69	90	81	74	68		78	72	67		75	70	66		73	69	65
4	85	74	66	59	83	73	65	59		70	63	58		68	62	57		66	61	57
5	79	67	58	52	77	66	58	52		63	56	51		62	55	51		60	54	50
6	73	60	52	46	71	59	51	46		58	51	45		56	50	45		55	49	45
7	68	55	47	41	66	54	46	41		53	46	41		51	45	40		50	44	40
8	63	51	42	37	62	50	42	37		49	42	37		47	41	36		46	40	36
9	59	47	39	33	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	36	31	55	43	35	30		42	35	30		41	35	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5473	5473	5473
5°	5449	5455	5506
10°	5407	5404	5455
15°	5298	5350	5428
20°	5177	5237	5338
25°	5005	5086	5228
30°	4795	4892	5063
35°	4514	4644	4808
40°	4201	4344	4501
45°	3857	3968	4091
50°	3478	3566	3679
55°	3087	3160	3214
60°	2766	2772	2828
65°	2549	2463	2549
70°	2461	2280	2346
75°	2504	2233	2276
80°	2698	2343	2343
85°	2995	2479	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	4.2
10°-20°	541.2	11.9
20°-30°	789.8	17.4
30°-40°	884.3	19.5
40°-50°	804.8	17.7
50°-60°	605.7	13.3
60°-70°	395.3	8.7
70°-80°	237.1	5.2
80°-90°	88.9	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°	1522.9	33.6
0°-40°	2407.2	53.0
0°-60°	3817.7	84.1
0°-90°	4539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2034	2034	2034	2034	2034	
5°	2017	2014	2019	2027	2038	191
15°	1902	1904	1920	1936	1948	536
25°	1686	1691	1713	1744	1761	774
35°	1374	1387	1414	1447	1464	859
45°	1013	1024	1043	1064	1075	780
55°	658	667	674	683	685	595
65°	400	396	387	393	400	400
75°	241	232	215	216	219	255
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°	2034.0	2034.0	2034.0	2034.0	2034.0
2.5°	2026.7	2025.7	2028.8	2034.0	2039.2
5°	2017.3	2014.2	2019.4	2026.7	2038.2
7.5°	2002.7	2002.7	2002.7	2016.3	2018.4
10°	1978.8	1980.9	1977.7	1991.3	1996.5
12.5°	1944.4	1945.4	1951.7	1965.2	1974.6
15°	1901.6	1903.7	1920.4	1936.0	1948.5
17.5°	1853.7	1861.0	1876.6	1901.6	1917.3
20°	1807.8	1816.1	1828.6	1855.7	1864.1
22.5°	1749.4	1758.8	1774.4	1798.4	1816.1
25°	1685.8	1691.0	1712.9	1744.2	1760.9
27.5°	1609.7	1621.2	1648.3	1680.6	1703.5
30°	1543.0	1549.2	1574.3	1611.8	1629.5
32.5°	1458.5	1477.3	1498.2	1531.5	1548.2
35°	1374.1	1386.6	1413.7	1447.1	1463.7
37.5°	1292.8	1300.1	1327.2	1355.3	1376.2
40°	1195.8	1209.4	1236.5	1266.7	1281.3
42.5°	1098.9	1118.7	1136.4	1166.6	1182.3
45°	1013.4	1023.8	1042.6	1064.4	1074.9
47.5°	923.7	928.9	950.8	964.4	975.8
50°	830.9	837.2	851.8	865.3	878.9
52.5°	745.4	750.6	760.0	772.5	786.1
55°	657.9	667.2	673.5	682.9	685.0
57.5°	587.0	585.9	590.1	597.4	604.7
60°	514.0	516.1	515.0	522.3	525.4
62.5°	453.5	452.5	446.2	456.6	465.0
65°	400.3	396.2	386.8	393.0	400.3
67.5°	351.3	349.3	333.6	338.8	345.1
70°	312.8	305.5	289.8	293.0	298.2
72.5°	275.2	266.9	251.3	252.3	255.4
75°	240.8	232.5	214.8	215.8	218.9
77.5°	208.5	198.1	182.4	180.4	182.4
80°	174.1	164.7	151.2	144.9	151.2
82.5°	138.7	133.4	117.8	111.6	113.6
85°	97.0	93.8	80.3	76.1	79.2
87.5°	44.8	48.0	40.7	37.5	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)