

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: P291763

Luminaire Tested: **22GR-LD5-43-F1-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291763
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-L83050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4115.0 lumens
Efficiency: N/A
Efficacy: 117.4 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

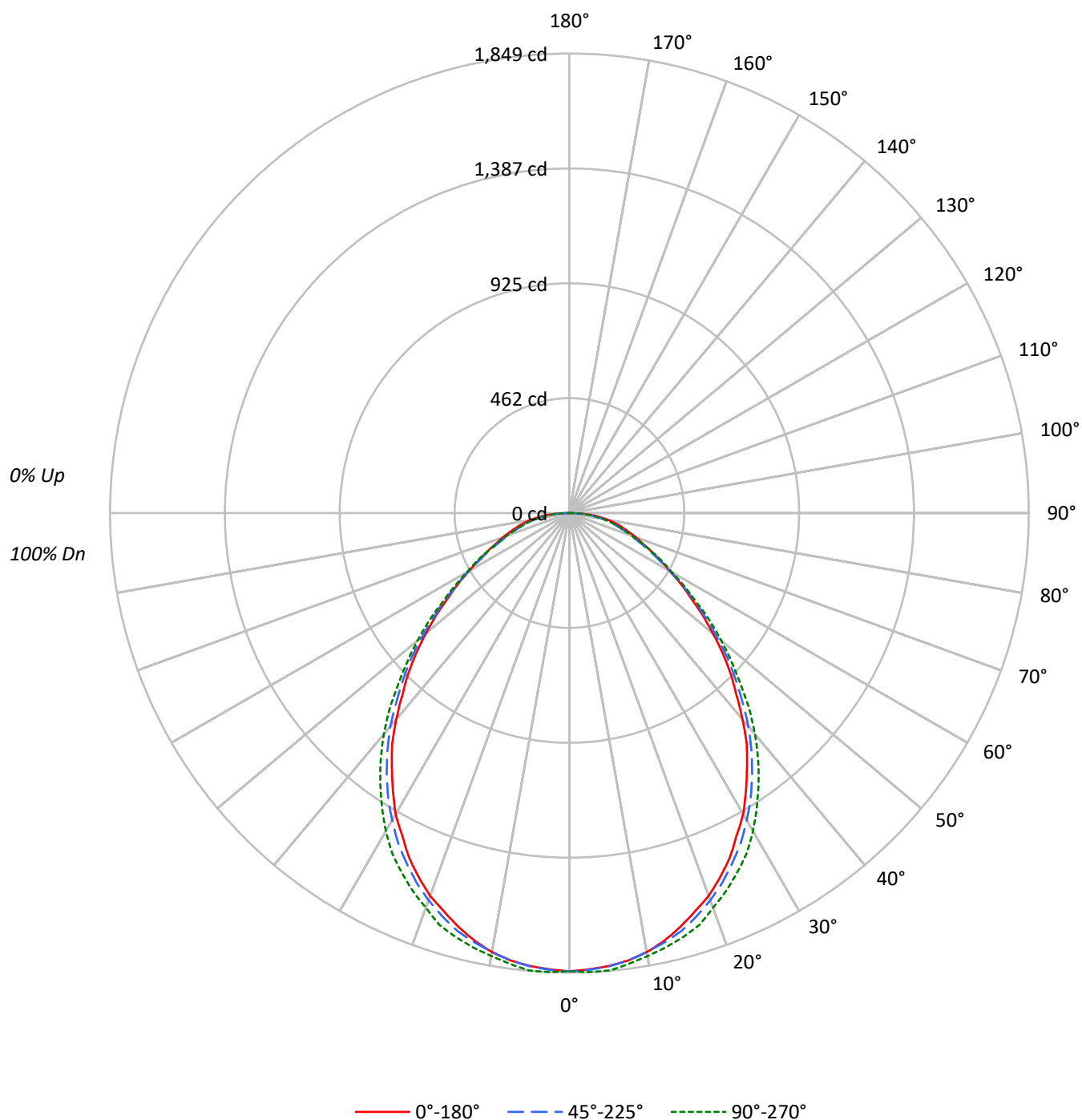
Input Watts (W): 35.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4962	4962	4962
5°	4940	4945	4991
10°	4902	4899	4946
15°	4803	4850	4921
20°	4693	4747	4840
25°	4538	4611	4740
30°	4346	4435	4590
35°	4092	4210	4359
40°	3808	3938	4080
45°	3496	3597	3709
50°	3154	3233	3336
55°	2798	2865	2913
60°	2508	2513	2564
65°	2311	2233	2311
70°	2231	2068	2127
75°	2270	2024	2064
80°	2445	2123	2123
85°	2714	2248	2217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	4.2
10°-20°	490.6	11.9
20°-30°	716.1	17.4
30°-40°	801.7	19.5
40°-50°	729.6	17.7
50°-60°	549.2	13.3
60°-70°	358.4	8.7
70°-80°	214.9	5.2
80°-90°	80.6	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°	1380.6	33.6
0°-40°	2182.3	53.0
0°-60°	3461.1	84.1
0°-90°	4115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1844	1844	1844	1844	1844	
5°	1829	1826	1831	1837	1848	174
15°	1724	1726	1741	1755	1766	486
25°	1528	1533	1553	1581	1596	702
35°	1246	1257	1282	1312	1327	779
45°	919	928	945	965	974	707
55°	596	605	611	619	621	539
65°	363	359	351	356	363	363
75°	218	211	195	196	198	232
85°	88	85	73	69	72	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1844.0	1844.0	1844.0	1844.0	1844.0
2.5°	1837.4	1836.5	1839.3	1844.0	1848.7
5°	1828.9	1826.1	1830.8	1837.4	1847.8
7.5°	1815.7	1815.7	1815.7	1828.0	1829.8
10°	1793.9	1795.8	1793.0	1805.3	1810.0
12.5°	1762.7	1763.7	1769.4	1781.6	1790.1
15°	1724.0	1725.9	1741.0	1755.2	1766.5
17.5°	1680.5	1687.1	1701.3	1724.0	1738.2
20°	1638.9	1646.5	1657.8	1682.4	1690.0
22.5°	1586.0	1594.5	1608.7	1630.4	1646.5
25°	1528.3	1533.1	1552.9	1581.3	1596.4
27.5°	1459.3	1469.7	1494.3	1523.6	1544.4
30°	1398.8	1404.5	1427.2	1461.2	1477.3
32.5°	1322.3	1339.3	1358.2	1388.4	1403.6
35°	1245.7	1257.1	1281.6	1311.9	1327.0
37.5°	1172.0	1178.6	1203.2	1228.7	1247.6
40°	1084.1	1096.4	1121.0	1148.4	1161.6
42.5°	996.2	1014.2	1030.2	1057.6	1071.8
45°	918.7	928.2	945.2	965.0	974.5
47.5°	837.4	842.1	862.0	874.3	884.7
50°	753.3	759.0	772.2	784.5	796.8
52.5°	675.8	680.5	689.0	700.4	712.7
55°	596.4	604.9	610.6	619.1	621.0
57.5°	532.1	531.2	535.0	541.6	548.2
60°	466.0	467.9	466.9	473.5	476.4
62.5°	411.1	410.2	404.5	414.0	421.5
65°	362.9	359.2	350.7	356.3	362.9
67.5°	318.5	316.6	302.5	307.2	312.9
70°	283.6	276.9	262.8	265.6	270.3
72.5°	249.5	242.0	227.8	228.7	231.6
75°	218.3	210.8	194.7	195.6	198.5
77.5°	189.0	179.6	165.4	163.5	165.4
80°	157.8	149.3	137.0	131.4	137.0
82.5°	125.7	121.0	106.8	101.1	103.0
85°	87.9	85.1	72.8	69.0	71.8
87.5°	40.6	43.5	36.9	34.0	35.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)