

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: P292209

Luminaire Tested: **22GR-LD5-40-A-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292209
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-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4130.0 lumens
Efficiency: N/A
Efficacy: 125.1 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

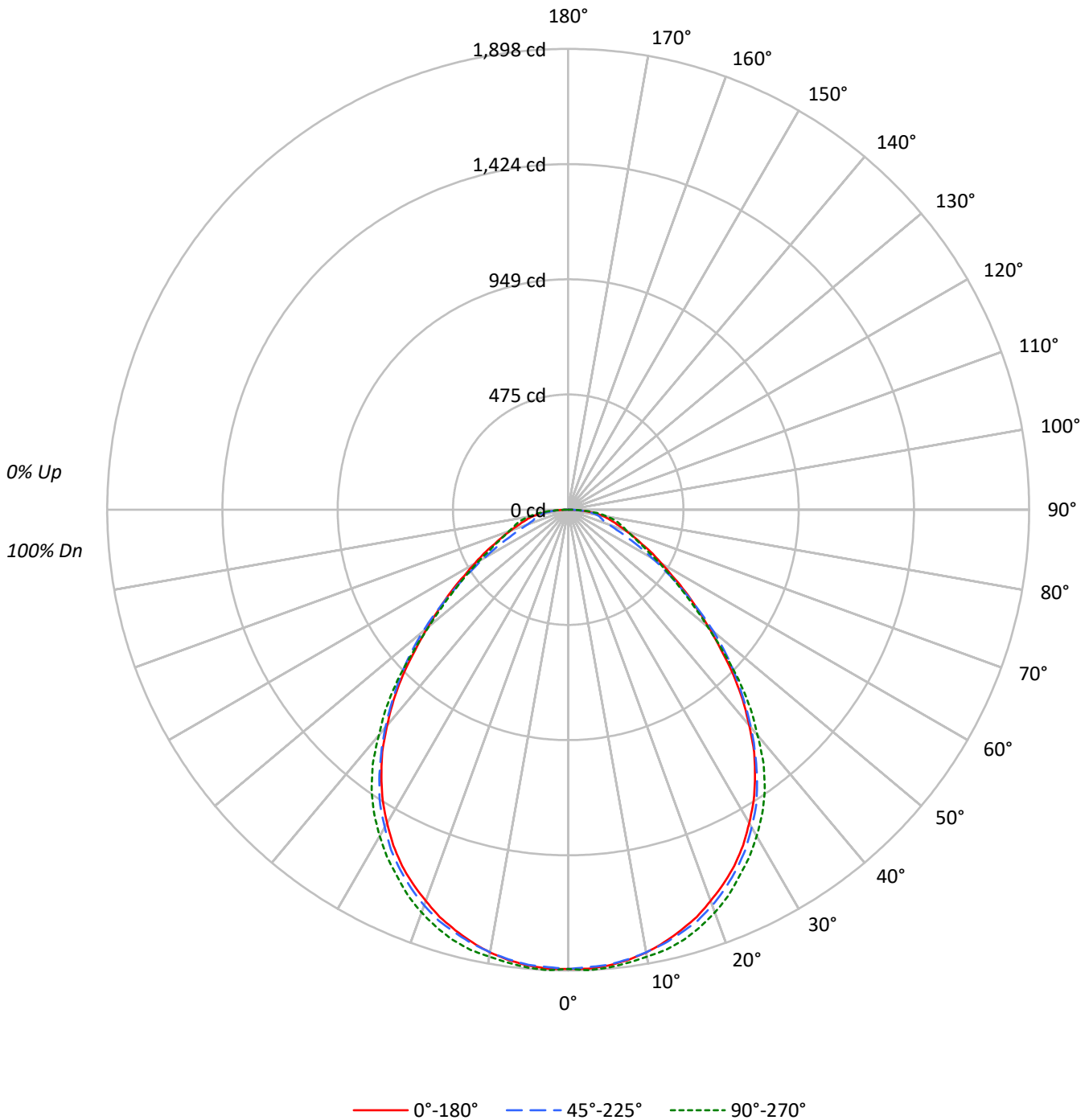
Input Watts (W): 33.015
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5090	5090	5090
5°	5091	5083	5114
10°	5061	5058	5108
15°	4996	5023	5111
20°	4910	4968	5056
25°	4805	4860	4948
30°	4632	4694	4823
35°	4404	4455	4635
40°	4072	4115	4261
45°	3658	3723	3782
50°	3162	3275	3130
55°	2760	2687	2651
60°	2390	2152	2296
65°	2136	1689	2062
70°	1981	1399	2034
75°	1979	1478	2258
80°	2190	1861	2546
85°	2285	2019	2878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	4.3
10°-20°	509.8	12.3
20°-30°	753.9	18.3
30°-40°	850.8	20.6
40°-50°	750.0	18.2
50°-60°	514.5	12.5
60°-70°	303.6	7.4
70°-80°	189.4	4.6
80°-90°	79.0	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°	1442.7	34.9
0°-40°	2293.5	55.5
0°-60°	3558.0	86.1
0°-90°	4130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4130.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1891	1891	1891	1891	1891	
5°	1885	1881	1882	1888	1893	179
15°	1793	1795	1803	1825	1835	505
25°	1618	1624	1637	1658	1666	743
35°	1341	1352	1356	1389	1411	835
45°	961	966	978	984	994	738
55°	588	574	573	554	565	528
65°	335	295	265	307	324	338
75°	190	171	142	199	217	204
85°	74	69	65	86	93	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1891.4	1891.4	1891.4	1891.4	1891.4
2.5°	1892.4	1887.5	1885.6	1893.3	1898.1
5°	1884.7	1880.8	1881.8	1888.5	1893.3
7.5°	1871.2	1868.3	1868.3	1877.9	1882.7
10°	1852.0	1851.0	1851.0	1862.6	1869.3
12.5°	1825.1	1826.0	1829.9	1845.3	1856.8
15°	1793.4	1795.3	1803.0	1825.1	1834.7
17.5°	1758.8	1758.8	1774.1	1791.4	1803.0
20°	1714.6	1717.4	1734.7	1754.0	1765.5
22.5°	1669.4	1674.2	1688.6	1710.7	1721.3
25°	1618.4	1624.2	1636.7	1657.9	1666.5
27.5°	1558.9	1566.5	1580.0	1595.4	1613.6
30°	1490.6	1502.2	1510.8	1531.9	1552.1
32.5°	1421.4	1432.0	1441.6	1463.7	1486.8
35°	1340.7	1352.2	1356.1	1388.7	1410.9
37.5°	1258.0	1262.8	1264.8	1297.4	1321.5
40°	1159.1	1168.7	1171.5	1197.5	1212.9
42.5°	1063.9	1067.8	1073.5	1092.7	1111.0
45°	961.1	965.9	978.4	984.1	993.7
47.5°	853.4	867.8	882.3	864.0	865.0
50°	755.4	766.9	782.3	747.7	747.7
52.5°	667.9	673.7	674.7	645.8	651.6
55°	588.2	573.8	572.8	553.6	565.1
57.5°	508.4	489.2	482.5	476.7	490.1
60°	444.0	409.4	399.8	408.5	426.7
62.5°	391.2	346.9	328.7	350.8	367.1
65°	335.4	295.0	265.3	306.6	323.9
67.5°	292.2	253.7	215.3	273.9	286.4
70°	251.8	222.0	177.8	248.9	258.5
72.5°	219.1	196.1	153.8	224.9	236.4
75°	190.3	171.1	142.2	198.9	217.2
77.5°	167.2	146.1	132.6	172.0	194.1
80°	141.3	120.1	120.1	144.2	164.3
82.5°	111.5	94.2	97.1	117.3	131.7
85°	74.0	69.2	65.4	85.5	93.2
87.5°	37.5	38.4	34.6	44.2	45.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)