

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: P292017

Luminaire Tested: **22GR-LD5-40-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-F125-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4263.0 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

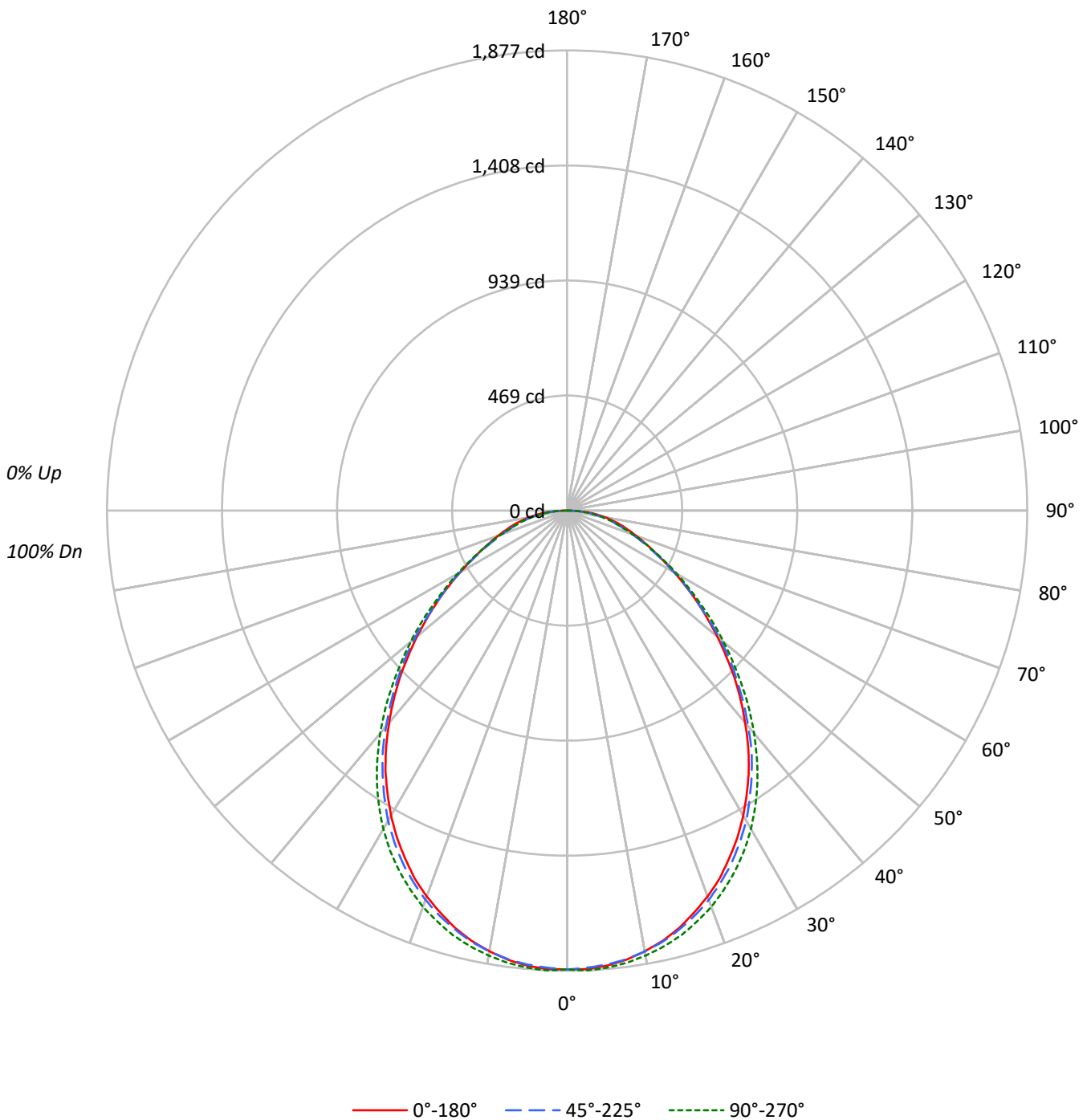
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67		75	70	66		73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58		68	62	57		65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51		61	55	50		59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45		56	49	45		54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40		51	45	40		50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36		47	41	36		46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33		44	37	33		43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30		40	34	30		40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5036	5036	5036
5°	5034	5021	5055
10°	4987	4990	5035
15°	4911	4927	4999
20°	4796	4838	4926
25°	4646	4711	4814
30°	4463	4540	4660
35°	4244	4312	4445
40°	3968	4034	4166
45°	3674	3730	3839
50°	3346	3400	3487
55°	3021	3030	3118
60°	2710	2721	2784
65°	2469	2418	2475
70°	2350	2218	2257
75°	2365	2139	2149
80°	2453	2162	2146
85°	2686	2291	2167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.8	4.1
10°-20°	499.5	11.7
20°-30°	731.0	17.1
30°-40°	821.9	19.3
40°-50°	758.0	17.8
50°-60°	584.2	13.7
60°-70°	385.5	9.0
70°-80°	224.4	5.3
80°-90°	81.7	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°	1407.3	33.0
0°-40°	2229.2	52.3
0°-60°	3571.4	83.8
0°-90°	4263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1872	1872	1872	1872	1872	
5°	1864	1860	1859	1868	1872	177
15°	1763	1763	1769	1784	1794	496
25°	1565	1573	1587	1608	1621	720
35°	1292	1298	1313	1339	1353	805
45°	965	966	980	1000	1009	743
55°	644	643	646	657	665	578
65°	388	386	380	383	389	389
75°	228	218	206	202	207	240
85°	87	86	74	68	70	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1871.5	1871.5	1871.5	1871.5	1871.5
2.5°	1871.5	1867.5	1866.5	1873.5	1877.4
5°	1863.6	1859.6	1858.6	1867.5	1871.5
7.5°	1847.7	1844.8	1845.8	1855.6	1860.6
10°	1825.0	1824.0	1826.0	1836.9	1842.8
12.5°	1798.3	1797.3	1801.2	1813.1	1821.0
15°	1762.7	1762.7	1768.6	1784.4	1794.3
17.5°	1720.1	1723.1	1732.0	1747.8	1758.7
20°	1674.6	1677.6	1689.5	1707.3	1720.1
22.5°	1624.2	1628.1	1640.0	1661.8	1672.7
25°	1564.8	1572.8	1586.6	1608.4	1621.2
27.5°	1503.5	1512.4	1525.3	1552.0	1563.8
30°	1436.2	1442.2	1461.0	1485.7	1499.6
32.5°	1365.0	1371.0	1386.8	1416.5	1428.3
35°	1291.8	1297.8	1312.6	1339.3	1353.2
37.5°	1212.7	1217.6	1235.5	1256.2	1271.1
40°	1129.6	1136.5	1148.4	1173.1	1186.0
42.5°	1048.5	1051.5	1064.3	1089.1	1098.9
45°	965.4	966.4	980.2	1000.0	1008.9
47.5°	879.4	881.3	898.1	910.0	918.9
50°	799.2	800.2	812.1	823.0	832.9
52.5°	719.1	719.1	725.0	736.9	749.8
55°	643.9	642.9	645.9	656.8	664.7
57.5°	572.7	571.7	575.7	582.6	588.5
60°	503.5	501.5	505.5	509.4	517.3
62.5°	442.2	444.1	439.2	445.1	451.1
65°	387.7	385.8	379.8	382.8	388.7
67.5°	341.3	338.3	328.4	330.4	337.3
70°	298.7	292.8	281.9	281.9	286.9
72.5°	260.1	254.2	240.4	241.4	243.3
75°	227.5	217.6	205.7	201.8	206.7
77.5°	191.9	184.0	173.1	170.1	172.1
80°	158.3	152.3	139.5	135.5	138.5
82.5°	125.6	120.7	105.8	102.9	103.9
85°	87.0	86.1	74.2	68.3	70.2
87.5°	46.5	47.5	38.6	34.6	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)