

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: P292014

Luminaire Tested: **22GR-LD5-40-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292014
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-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4199.0 lumens
Efficiency: N/A
Efficacy: 126.8 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

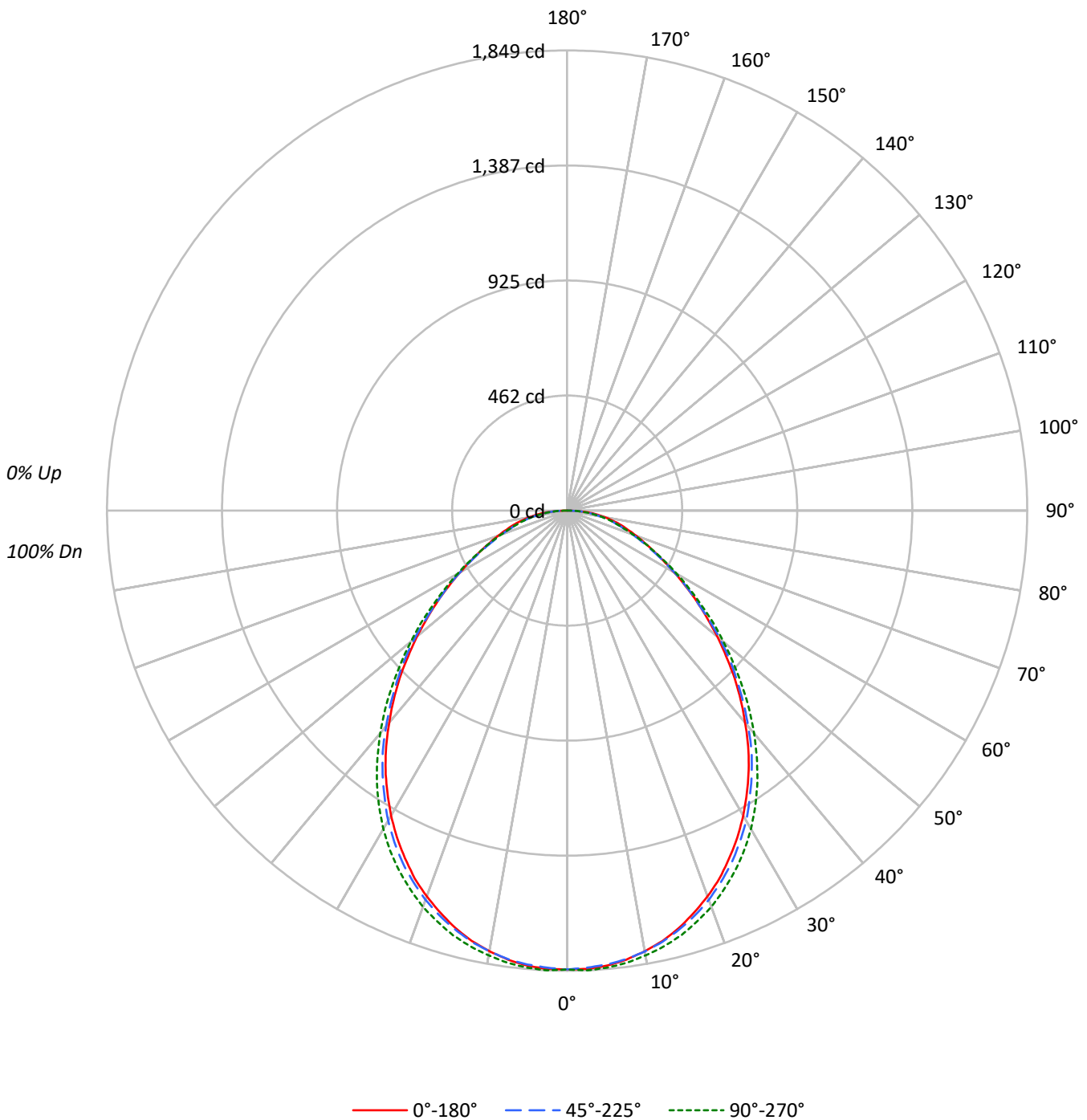
Input Watts (W): 33.108
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4961	4961	4961
5°	4958	4945	4979
10°	4912	4915	4960
15°	4837	4853	4924
20°	4724	4765	4852
25°	4576	4640	4741
30°	4396	4471	4589
35°	4180	4247	4378
40°	3909	3974	4104
45°	3619	3674	3782
50°	3296	3349	3435
55°	2976	2985	3072
60°	2669	2680	2743
65°	2432	2382	2438
70°	2315	2185	2223
75°	2330	2108	2117
80°	2416	2129	2114
85°	2646	2257	2137



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	4.1
10°-20°	492.0	11.7
20°-30°	720.1	17.1
30°-40°	809.6	19.3
40°-50°	746.6	17.8
50°-60°	575.4	13.7
60°-70°	379.7	9.0
70°-80°	221.0	5.3
80°-90°	80.5	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°	1386.2	33.0
0°-40°	2195.8	52.3
0°-60°	3517.8	83.8
0°-90°	4199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4199.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1843	1843	1843	1843	1843	
5°	1836	1832	1831	1840	1843	174
15°	1736	1736	1742	1758	1767	489
25°	1541	1549	1563	1584	1597	709
35°	1272	1278	1293	1319	1333	793
45°	951	952	966	985	994	732
55°	634	633	636	647	655	569
65°	382	380	374	377	383	383
75°	224	214	203	199	204	236
85°	86	85	73	67	69	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1843.4	1843.4	1843.4	1843.4	1843.4
2.5°	1843.4	1839.5	1838.5	1845.3	1849.2
5°	1835.6	1831.7	1830.7	1839.5	1843.4
7.5°	1820.0	1817.1	1818.0	1827.8	1832.7
10°	1797.6	1796.6	1798.6	1809.3	1815.1
12.5°	1771.3	1770.3	1774.2	1785.9	1793.7
15°	1736.2	1736.2	1742.1	1757.6	1767.4
17.5°	1694.3	1697.2	1706.0	1721.6	1732.3
20°	1649.5	1652.4	1664.1	1681.6	1694.3
22.5°	1599.8	1603.7	1615.4	1636.8	1647.5
25°	1541.3	1549.1	1562.8	1584.2	1596.9
27.5°	1480.9	1489.7	1502.4	1528.7	1540.4
30°	1414.7	1420.5	1439.0	1463.4	1477.0
32.5°	1344.5	1350.4	1366.0	1395.2	1406.9
35°	1272.4	1278.3	1292.9	1319.2	1332.8
37.5°	1194.5	1199.4	1216.9	1237.4	1252.0
40°	1112.7	1119.5	1131.2	1155.5	1168.2
42.5°	1032.8	1035.7	1048.3	1072.7	1082.4
45°	950.9	951.9	965.5	985.0	993.8
47.5°	866.2	868.1	884.7	896.4	905.1
50°	787.2	788.2	799.9	810.6	820.4
52.5°	708.3	708.3	714.2	725.9	738.5
55°	634.3	633.3	636.2	646.9	654.7
57.5°	564.1	563.1	567.0	573.9	579.7
60°	495.9	494.0	497.9	501.8	509.6
62.5°	435.5	437.5	432.6	438.4	444.3
65°	381.9	380.0	374.1	377.1	382.9
67.5°	336.1	333.2	323.5	325.4	332.2
70°	294.2	288.4	277.7	277.7	282.5
72.5°	256.2	250.4	236.8	237.7	239.7
75°	224.1	214.3	202.7	198.8	203.6
77.5°	189.0	181.2	170.5	167.6	169.5
80°	155.9	150.0	137.4	133.5	136.4
82.5°	123.7	118.9	104.3	101.3	102.3
85°	85.7	84.8	73.1	67.2	69.2
87.5°	45.8	46.8	38.0	34.1	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)