

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: P292021

Luminaire Tested: **22GR-LD5-43-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292021
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-LD5-43-F125-UNV-L82765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4346.0 lumens
Efficiency: N/A
Efficacy: 122.3 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

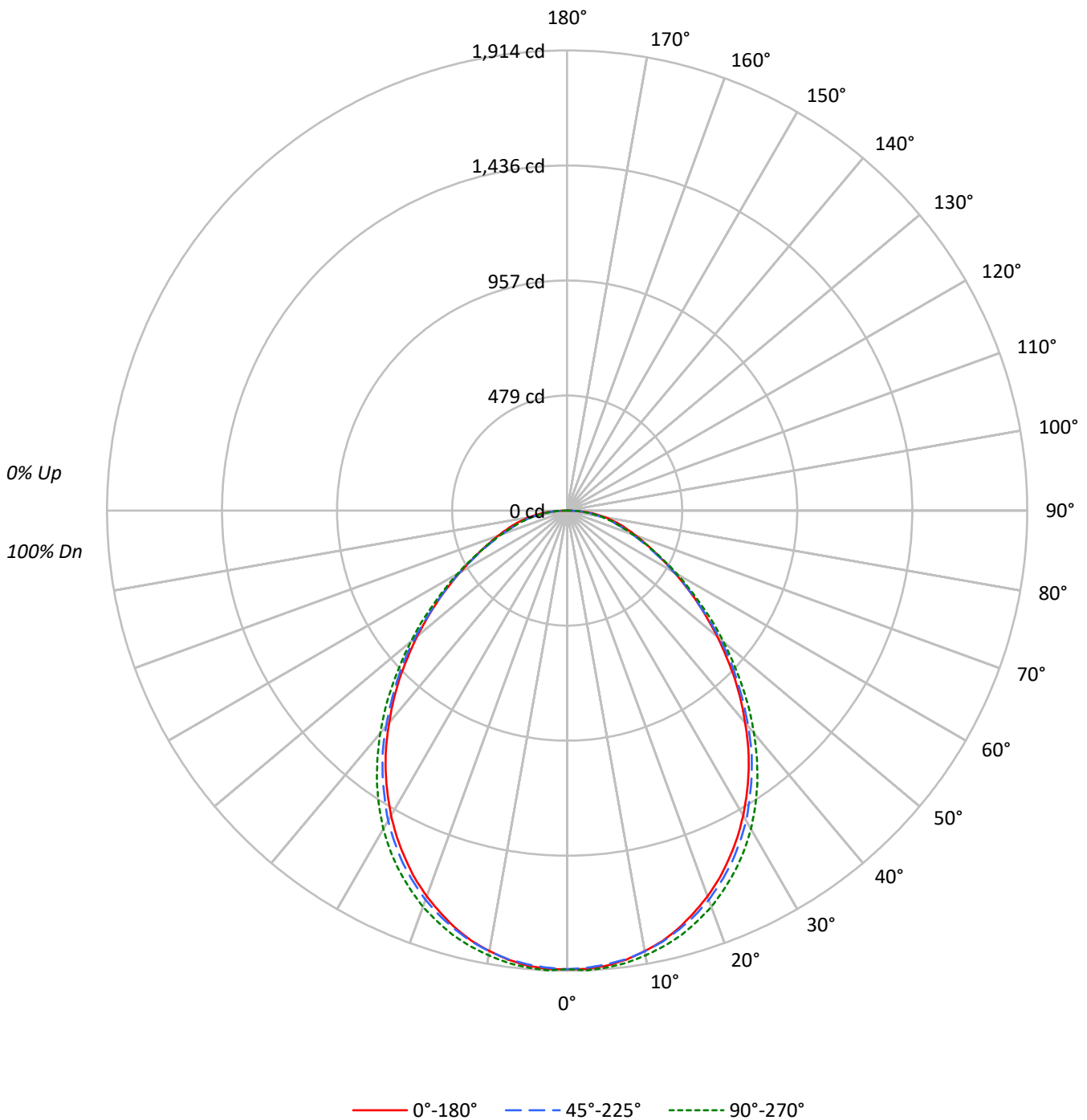
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5134	5134	5134
5°	5132	5118	5154
10°	5084	5087	5134
15°	5006	5023	5096
20°	4889	4932	5022
25°	4737	4803	4907
30°	4550	4628	4750
35°	4326	4396	4532
40°	4045	4113	4247
45°	3745	3803	3914
50°	3411	3466	3555
55°	3080	3089	3179
60°	2763	2773	2838
65°	2517	2465	2523
70°	2396	2261	2301
75°	2411	2180	2192
80°	2500	2204	2188
85°	2739	2334	2211



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.3	4.1
10°-20°	509.2	11.7
20°-30°	745.3	17.1
30°-40°	837.9	19.3
40°-50°	772.7	17.8
50°-60°	595.6	13.7
60°-70°	393.0	9.0
70°-80°	228.7	5.3
80°-90°	83.3	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°	1434.7	33.0
0°-40°	2272.6	52.3
0°-60°	3641.0	83.8
0°-90°	4346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4346.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1908	1908	1908	1908	1908	
5°	1900	1896	1895	1904	1908	180
15°	1797	1797	1803	1819	1829	506
25°	1595	1603	1618	1640	1653	734
35°	1317	1323	1338	1365	1380	821
45°	984	985	999	1020	1029	758
55°	656	656	658	670	678	589
65°	395	393	387	390	396	396
75°	232	222	210	206	211	244
85°	89	88	76	70	72	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1907.9	1907.9	1907.9	1907.9	1907.9
2.5°	1907.9	1903.9	1902.9	1909.9	1914.0
5°	1899.8	1895.8	1894.8	1903.9	1907.9
7.5°	1883.7	1880.7	1881.7	1891.8	1896.8
10°	1860.5	1859.5	1861.5	1872.6	1878.7
12.5°	1833.3	1832.3	1836.3	1848.4	1856.5
15°	1797.0	1797.0	1803.0	1819.2	1829.3
17.5°	1753.6	1756.7	1765.7	1781.9	1793.0
20°	1707.2	1710.3	1722.4	1740.5	1753.6
22.5°	1655.8	1659.8	1671.9	1694.1	1705.2
25°	1595.3	1603.4	1617.5	1639.7	1652.8
27.5°	1532.8	1541.9	1555.0	1582.2	1594.3
30°	1464.2	1470.3	1489.4	1514.6	1528.7
32.5°	1391.6	1397.7	1413.8	1444.0	1456.1
35°	1317.0	1323.0	1338.2	1365.4	1379.5
37.5°	1236.3	1241.4	1259.5	1280.7	1295.8
40°	1151.6	1158.7	1170.8	1196.0	1209.1
42.5°	1068.9	1071.9	1085.0	1110.3	1120.3
45°	984.2	985.2	999.3	1019.5	1028.6
47.5°	896.5	898.5	915.6	927.7	936.8
50°	814.8	815.8	827.9	839.0	849.1
52.5°	733.1	733.1	739.2	751.3	764.4
55°	656.5	655.5	658.5	669.6	677.7
57.5°	583.9	582.9	586.9	594.0	600.0
60°	513.3	511.3	515.3	519.3	527.4
62.5°	450.8	452.8	447.7	453.8	459.8
65°	395.3	393.3	387.2	390.3	396.3
67.5°	347.9	344.9	334.8	336.8	343.9
70°	304.5	298.5	287.4	287.4	292.4
72.5°	265.2	259.2	245.0	246.1	248.1
75°	231.9	221.9	209.7	205.7	210.8
77.5°	195.6	187.6	176.5	173.4	175.5
80°	161.3	155.3	142.2	138.2	141.2
82.5°	128.1	123.0	107.9	104.9	105.9
85°	88.7	87.7	75.6	69.6	71.6
87.5°	47.4	48.4	39.3	35.3	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)