

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: P292983

Luminaire Tested: **24GR-LD5-42-F1-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-F1-UNV-L82765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4094.0 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

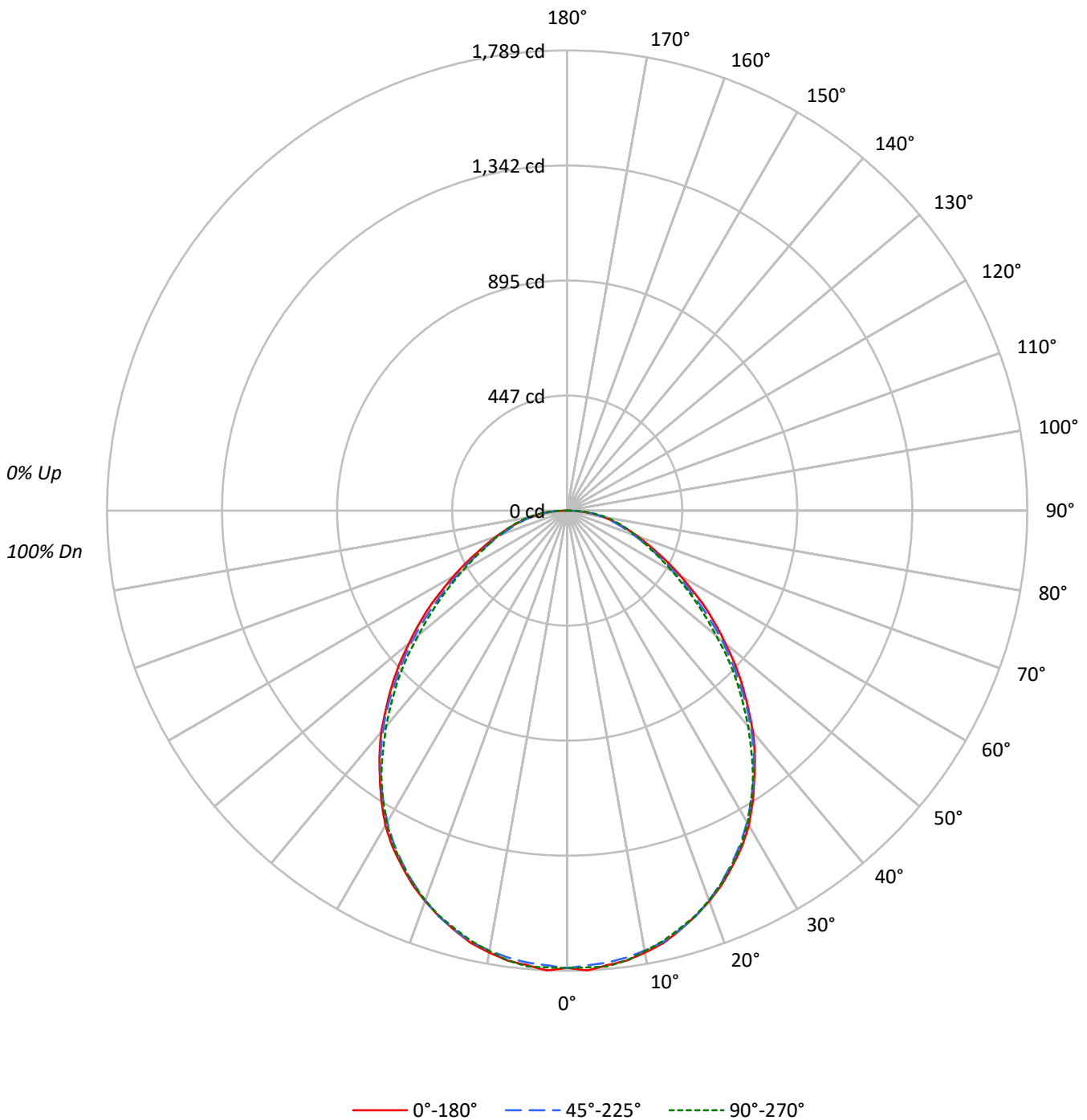
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	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	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2393	2393	2393
5°	2396	2383	2403
10°	2384	2373	2375
15°	2354	2351	2345
20°	2314	2309	2309
25°	2260	2248	2253
30°	2195	2173	2179
35°	2085	2075	2069
40°	1974	1956	1922
45°	1835	1803	1768
50°	1681	1644	1582
55°	1535	1466	1416
60°	1368	1302	1268
65°	1231	1167	1151
70°	1143	1073	1116
75°	1093	1045	1133
80°	1093	1093	1210
85°	1135	1147	1278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	4.1
10°-20°	475.3	11.6
20°-30°	697.5	17.0
30°-40°	788.6	19.3
40°-50°	728.8	17.8
50°-60°	561.5	13.7
60°-70°	371.8	9.1
70°-80°	221.4	5.4
80°-90°	81.1	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°	1340.7	32.7
0°-40°	2129.4	52.0
0°-60°	3419.7	83.5
0°-90°	4094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1778	1778	1778	1778	1778	
5°	1774	1774	1764	1765	1779	169
15°	1690	1686	1688	1687	1684	476
25°	1522	1518	1514	1512	1517	701
35°	1269	1268	1263	1257	1260	794
45°	964	958	947	930	929	743
55°	654	641	625	608	604	584
65°	387	381	366	363	361	388
75°	210	205	201	210	218	224
85°	74	69	74	82	83	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1778.3	1778.3	1778.3	1778.3	1778.3
2.5°	1789.3	1780.0	1769.9	1769.9	1777.5
5°	1774.1	1774.1	1764.0	1764.8	1779.2
7.5°	1764.8	1759.8	1753.0	1753.0	1764.0
10°	1744.6	1740.3	1737.0	1735.3	1738.6
12.5°	1722.6	1715.8	1718.4	1715.8	1715.0
15°	1689.7	1686.3	1688.0	1687.1	1683.8
17.5°	1654.2	1652.5	1655.9	1650.0	1652.5
20°	1616.2	1611.1	1612.8	1609.5	1612.8
22.5°	1573.1	1569.8	1565.5	1561.3	1568.1
25°	1522.5	1518.3	1514.0	1512.3	1517.4
27.5°	1471.8	1465.1	1459.1	1457.5	1465.1
30°	1412.7	1405.1	1398.4	1396.7	1402.6
32.5°	1342.6	1340.9	1332.5	1329.1	1331.6
35°	1269.2	1267.5	1263.2	1257.3	1259.9
37.5°	1199.1	1198.2	1192.3	1182.2	1175.4
40°	1123.9	1118.0	1113.8	1099.4	1094.4
42.5°	1041.2	1039.5	1031.9	1015.8	1009.9
45°	964.3	957.6	947.4	930.5	928.9
47.5°	884.9	875.7	866.4	845.3	844.4
50°	803.0	796.3	785.3	764.2	755.8
52.5°	727.0	717.8	702.6	682.3	678.1
55°	654.4	640.9	624.9	608.0	603.8
57.5°	576.7	570.8	551.4	537.9	532.8
60°	508.3	503.3	483.8	471.2	471.2
62.5°	446.7	439.1	422.2	413.8	413.8
65°	386.7	380.8	366.5	363.1	361.4
67.5°	335.2	327.6	317.5	316.7	320.9
70°	290.5	281.2	272.7	281.2	283.7
72.5°	248.3	242.3	234.7	245.7	250.8
75°	210.3	205.2	201.0	210.3	217.9
77.5°	175.6	170.6	170.6	180.7	187.5
80°	141.0	137.6	141.0	149.5	156.2
82.5°	108.1	105.6	109.8	118.2	122.4
85°	73.5	69.2	74.3	81.9	82.8
87.5°	34.6	33.8	37.2	42.2	41.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)