

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: P293363

Luminaire Tested: **24GR-LD5-42-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-F125-UNV-L92765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3798.0 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

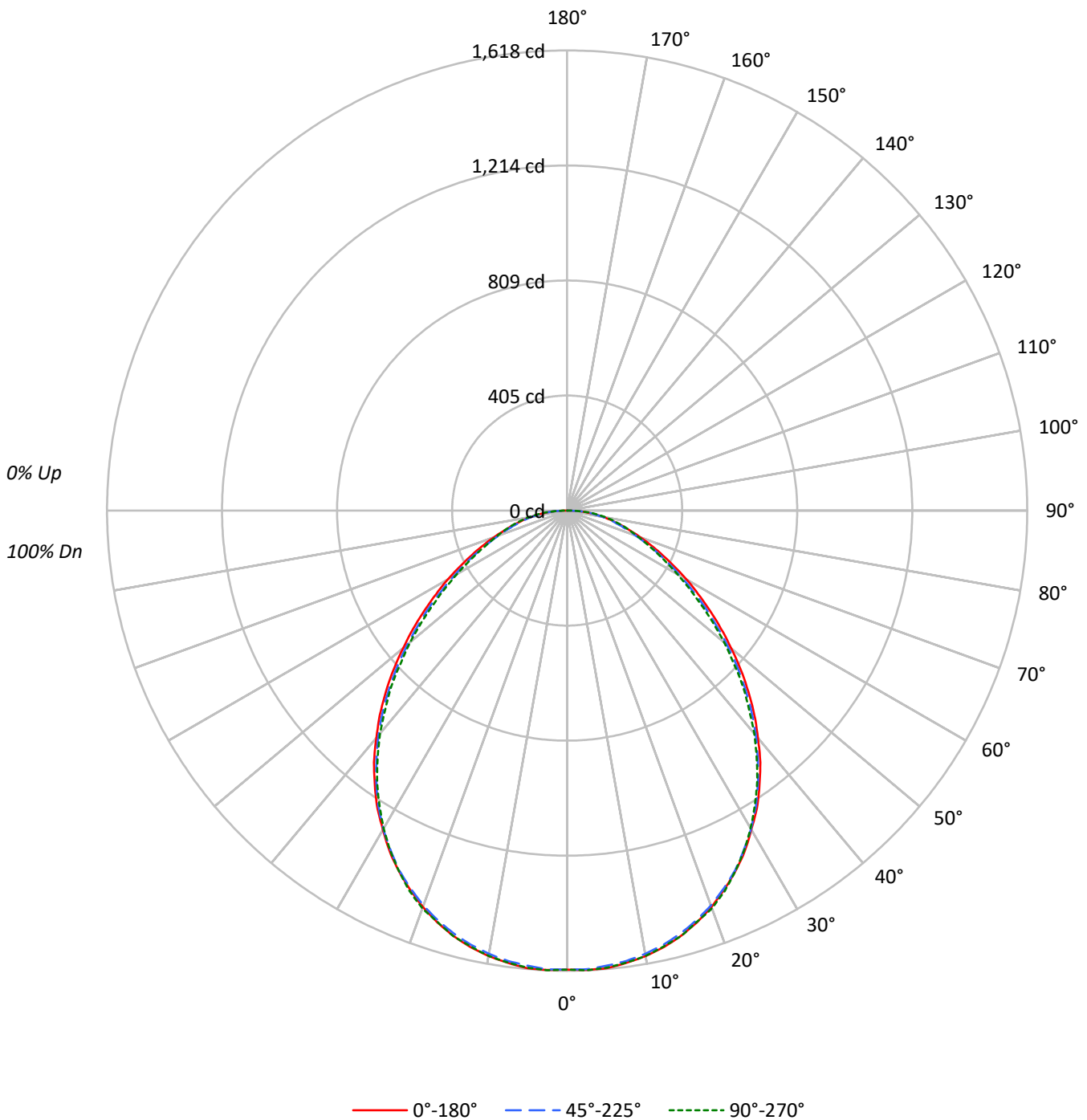
Input Watts (W): 28.551
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2172	2172	2172
5°	2182	2170	2179
10°	2173	2162	2172
15°	2156	2144	2157
20°	2124	2116	2131
25°	2078	2073	2077
30°	2013	2009	2004
35°	1937	1922	1914
40°	1833	1812	1798
45°	1715	1683	1663
50°	1576	1533	1507
55°	1437	1384	1344
60°	1305	1235	1203
65°	1176	1110	1090
70°	1077	1007	1035
75°	1006	960	1031
80°	998	979	1076
85°	1017	1027	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	4.0
10°-20°	434.3	11.4
20°-30°	641.6	16.9
30°-40°	729.5	19.2
40°-50°	681.2	17.9
50°-60°	529.8	13.9
60°-70°	351.5	9.3
70°-80°	203.4	5.4
80°-90°	74.0	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°	1228.7	32.4
0°-40°	1958.1	51.6
0°-60°	3169.1	83.4
0°-90°	3798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3798.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1615	1607	1606	1609	1613	153
15°	1548	1540	1539	1539	1549	436
25°	1400	1394	1396	1393	1399	644
35°	1179	1173	1170	1162	1165	736
45°	901	894	884	873	874	694
55°	613	604	590	575	573	549
65°	369	358	348	342	342	369
75°	194	189	185	193	198	207
85°	66	65	66	75	76	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1614.1	1614.1	1614.1	1614.1	1614.1
2.5°	1616.5	1611.8	1614.1	1612.4	1617.7
5°	1615.3	1607.0	1606.4	1609.4	1613.0
7.5°	1604.1	1595.2	1596.9	1596.9	1602.9
10°	1590.4	1581.5	1582.7	1583.3	1589.8
12.5°	1572.0	1563.1	1563.7	1563.1	1569.6
15°	1547.7	1539.9	1539.3	1538.8	1548.8
17.5°	1518.0	1507.3	1510.9	1511.4	1516.8
20°	1483.5	1475.2	1477.6	1477.0	1488.3
22.5°	1442.6	1436.6	1438.4	1437.2	1447.9
25°	1399.8	1393.9	1396.3	1393.3	1399.2
27.5°	1351.8	1347.6	1345.2	1343.4	1347.6
30°	1295.4	1293.0	1293.0	1285.3	1290.0
32.5°	1241.9	1234.2	1234.2	1231.2	1228.3
35°	1179.0	1173.1	1170.1	1161.8	1165.3
37.5°	1116.1	1102.4	1101.2	1094.7	1094.7
40°	1043.6	1035.9	1031.8	1024.6	1023.5
42.5°	974.8	967.1	959.9	948.1	945.7
45°	901.2	894.0	884.5	873.3	873.9
47.5°	828.1	818.1	809.2	795.5	793.7
50°	752.8	745.6	732.6	720.7	720.1
52.5°	682.1	670.8	659.0	644.7	644.7
55°	612.7	603.7	590.1	574.7	572.9
57.5°	546.2	537.9	522.4	511.1	508.2
60°	485.0	473.1	458.9	449.4	447.0
62.5°	423.9	413.2	402.5	393.0	392.4
65°	369.3	358.0	348.5	341.9	342.5
67.5°	320.0	310.5	299.8	298.0	298.6
70°	273.7	263.6	255.9	260.0	263.0
72.5°	229.7	224.4	219.1	225.0	229.2
75°	193.5	188.8	184.6	192.9	198.3
77.5°	160.3	156.7	156.1	163.3	168.0
80°	128.8	124.7	126.4	134.8	138.9
82.5°	98.0	95.0	95.6	105.7	108.6
85°	65.9	64.7	66.5	75.4	76.0
87.5°	35.0	35.0	36.2	41.6	39.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)