

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: P293232

Luminaire Tested: **24GR-LD5-38-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293232
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-LD5-38-F125-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4022.0 lumens
Efficiency: N/A
Efficacy: 151.7 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

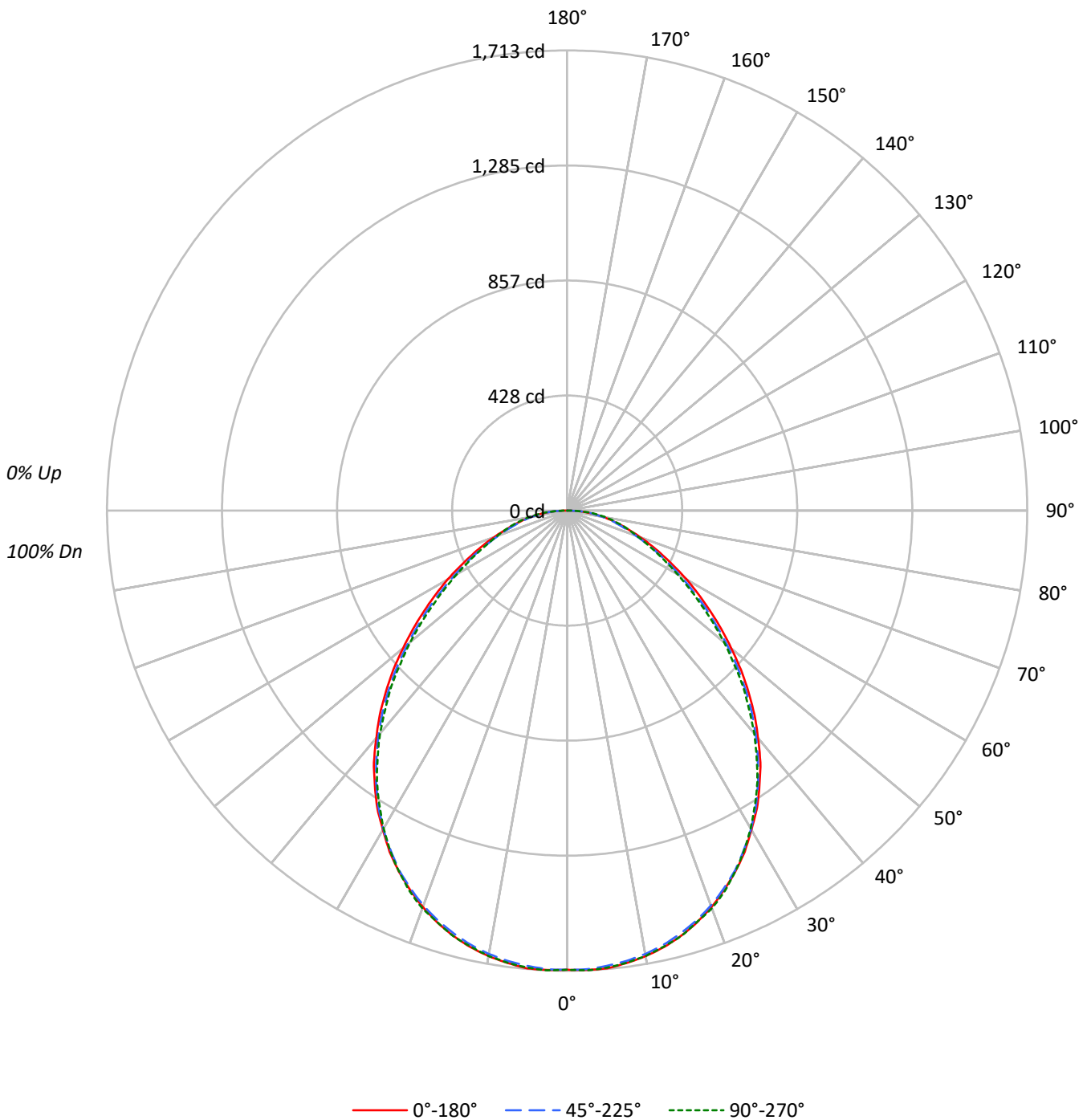
Input Watts (W): 26.505
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2300	2300	2300
5°	2310	2298	2307
10°	2301	2290	2300
15°	2283	2271	2285
20°	2249	2241	2257
25°	2201	2195	2200
30°	2131	2127	2122
35°	2051	2035	2027
40°	1941	1919	1904
45°	1816	1782	1761
50°	1669	1624	1596
55°	1522	1466	1423
60°	1382	1308	1274
65°	1245	1175	1155
70°	1140	1066	1096
75°	1065	1016	1092
80°	1057	1038	1140
85°	1078	1087	1243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	4.0
10°-20°	459.9	11.4
20°-30°	679.5	16.9
30°-40°	772.5	19.2
40°-50°	721.4	17.9
50°-60°	561.0	13.9
60°-70°	372.2	9.3
70°-80°	215.4	5.4
80°-90°	78.3	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°	1301.2	32.4
0°-40°	2073.6	51.6
0°-60°	3356.0	83.4
0°-90°	4022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1709	1709	1709	1709	1709	
5°	1711	1702	1701	1704	1708	162
15°	1639	1631	1630	1630	1640	462
25°	1482	1476	1479	1476	1482	682
35°	1248	1242	1239	1230	1234	779
45°	954	947	937	925	925	735
55°	649	639	625	609	607	582
65°	391	379	369	362	363	391
75°	205	200	196	204	210	219
85°	70	68	70	80	80	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1709.3	1709.3	1709.3	1709.3	1709.3
2.5°	1711.9	1706.8	1709.3	1707.5	1713.1
5°	1710.6	1701.8	1701.2	1704.3	1708.1
7.5°	1698.7	1689.2	1691.1	1691.1	1697.4
10°	1684.2	1674.8	1676.0	1676.7	1683.6
12.5°	1664.7	1655.3	1655.9	1655.3	1662.2
15°	1638.9	1630.8	1630.1	1629.5	1640.2
17.5°	1607.5	1596.2	1600.0	1600.6	1606.2
20°	1571.0	1562.2	1564.8	1564.1	1576.1
22.5°	1527.7	1521.4	1523.3	1522.0	1533.3
25°	1482.4	1476.1	1478.6	1475.5	1481.8
27.5°	1431.5	1427.1	1424.6	1422.7	1427.1
30°	1371.8	1369.2	1369.2	1361.1	1366.1
32.5°	1315.2	1307.0	1307.0	1303.9	1300.7
35°	1248.5	1242.2	1239.1	1230.3	1234.1
37.5°	1181.9	1167.4	1166.2	1159.3	1159.3
40°	1105.2	1097.0	1092.6	1085.1	1083.8
42.5°	1032.3	1024.1	1016.6	1004.0	1001.5
45°	954.3	946.8	936.7	924.8	925.4
47.5°	877.0	866.3	856.9	842.4	840.5
50°	797.2	789.6	775.8	763.2	762.6
52.5°	722.3	710.4	697.8	682.7	682.7
55°	648.8	639.4	624.9	608.6	606.7
57.5°	578.4	569.6	553.2	541.3	538.1
60°	513.6	501.0	486.0	475.9	473.4
62.5°	448.9	437.6	426.2	416.2	415.5
65°	391.0	379.1	369.0	362.1	362.7
67.5°	338.9	328.8	317.5	315.6	316.2
70°	289.8	279.1	271.0	275.4	278.5
72.5°	243.3	237.6	232.0	238.3	242.7
75°	204.9	199.9	195.5	204.3	210.0
77.5°	169.7	166.0	165.3	172.9	177.9
80°	136.4	132.0	133.9	142.7	147.1
82.5°	103.7	100.6	101.2	111.9	115.0
85°	69.8	68.5	70.4	79.8	80.5
87.5°	37.1	37.1	38.3	44.0	42.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)