

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: P292973

Luminaire Tested: **24GR-LD5-38-F1-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292973
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-LD5-38-F1-UNV-L82765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3633.0 lumens
Efficiency: N/A
Efficacy: 144.1 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

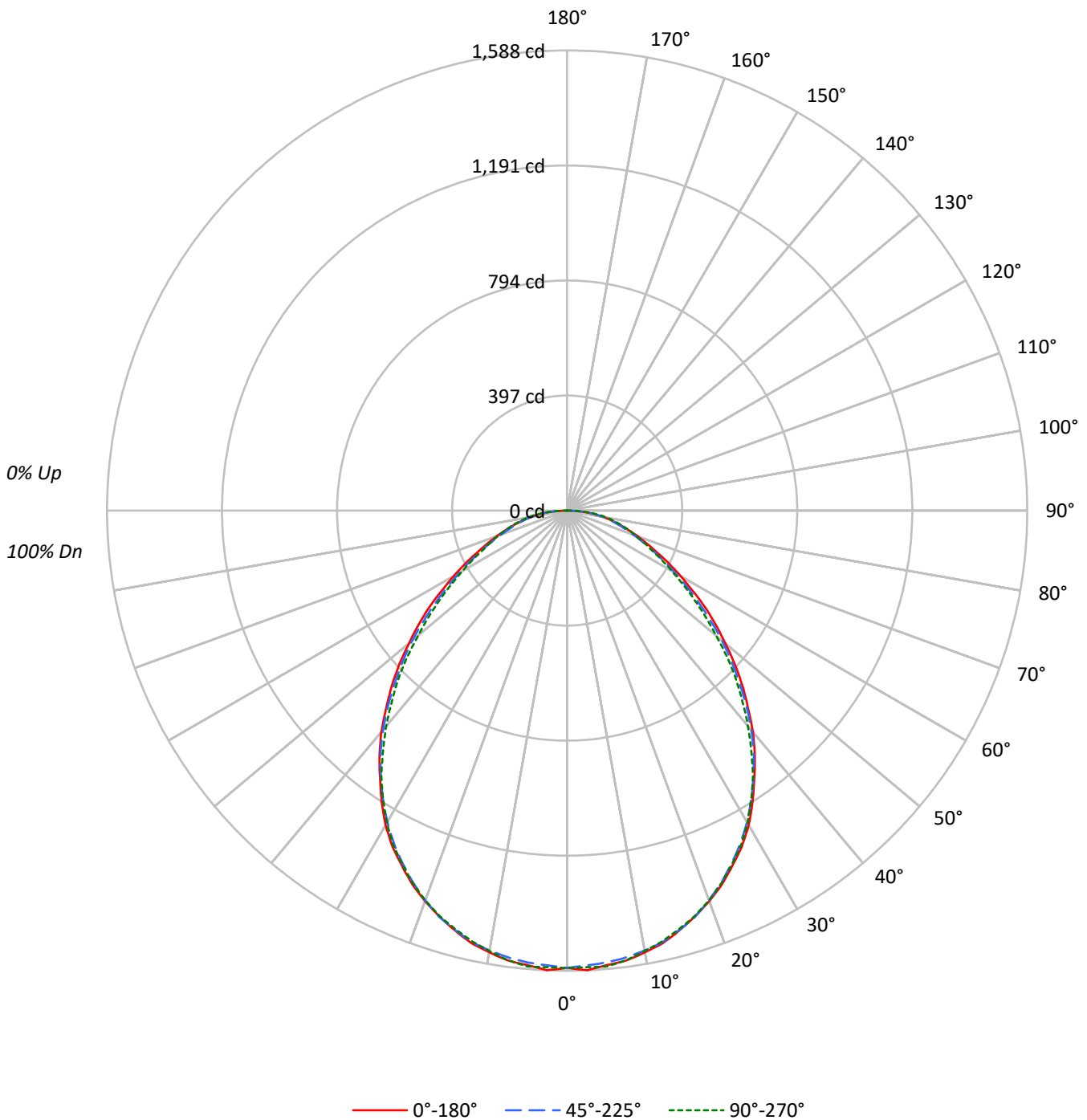
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	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	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2123	2123	2123
5°	2126	2114	2132
10°	2115	2106	2108
15°	2089	2087	2081
20°	2054	2049	2049
25°	2006	1995	1999
30°	1948	1928	1934
35°	1850	1841	1836
40°	1752	1736	1706
45°	1628	1600	1568
50°	1492	1459	1404
55°	1362	1301	1257
60°	1214	1156	1125
65°	1093	1035	1021
70°	1014	952	991
75°	970	927	1005
80°	969	969	1074
85°	1007	1017	1133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	4.1
10°-20°	421.7	11.6
20°-30°	619.0	17.0
30°-40°	699.8	19.3
40°-50°	646.8	17.8
50°-60°	498.3	13.7
60°-70°	330.0	9.1
70°-80°	196.4	5.4
80°-90°	72.0	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°	1189.8	32.7
0°-40°	1889.6	52.0
0°-60°	3034.6	83.5
0°-90°	3633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3633.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1578	1578	1578	1578	1578	
5°	1574	1574	1565	1566	1579	150
15°	1499	1496	1498	1497	1494	423
25°	1351	1347	1344	1342	1346	622
35°	1126	1125	1121	1116	1118	705
45°	856	850	841	826	824	659
55°	581	569	554	540	536	518
65°	343	338	325	322	321	344
75°	187	182	178	187	193	199
85°	65	61	66	73	73	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1578.1	1578.1	1578.1	1578.1	1578.1
2.5°	1587.8	1579.6	1570.6	1570.6	1577.3
5°	1574.3	1574.3	1565.4	1566.1	1578.8
7.5°	1566.1	1561.6	1555.6	1555.6	1565.4
10°	1548.1	1544.4	1541.4	1539.9	1542.9
12.5°	1528.6	1522.6	1524.9	1522.6	1521.9
15°	1499.4	1496.4	1497.9	1497.2	1494.2
17.5°	1467.9	1466.4	1469.4	1464.2	1466.4
20°	1434.2	1429.7	1431.2	1428.2	1431.2
22.5°	1396.0	1393.0	1389.3	1385.5	1391.5
25°	1351.0	1347.3	1343.5	1342.1	1346.5
27.5°	1306.1	1300.1	1294.8	1293.3	1300.1
30°	1253.6	1246.9	1240.9	1239.4	1244.6
32.5°	1191.4	1189.9	1182.4	1179.4	1181.7
35°	1126.2	1124.7	1121.0	1115.8	1118.0
37.5°	1064.0	1063.3	1058.1	1049.1	1043.1
40°	997.4	992.1	988.4	975.6	971.1
42.5°	923.9	922.4	915.7	901.4	896.2
45°	855.7	849.7	840.7	825.8	824.3
47.5°	785.3	777.1	768.8	750.1	749.3
50°	712.6	706.6	696.9	678.1	670.7
52.5°	645.2	636.9	623.4	605.5	601.7
55°	580.7	568.7	554.5	539.5	535.8
57.5°	511.8	506.5	489.3	477.3	472.8
60°	451.1	446.6	429.4	418.1	418.1
62.5°	396.4	389.7	374.7	367.2	367.2
65°	343.2	337.9	325.2	322.2	320.7
67.5°	297.5	290.7	281.7	281.0	284.7
70°	257.8	249.5	242.0	249.5	251.8
72.5°	220.3	215.1	208.3	218.1	222.6
75°	186.6	182.1	178.3	186.6	193.3
77.5°	155.9	151.4	151.4	160.4	166.4
80°	125.1	122.1	125.1	132.6	138.6
82.5°	95.9	93.7	97.4	104.9	108.7
85°	65.2	61.4	65.9	72.7	73.4
87.5°	30.7	30.0	33.0	37.5	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)