

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: P293088

Luminaire Tested: **24GR-LD5-30-F1-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293088
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-LD5-30-F1-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2893.0 lumens
Efficiency: N/A
Efficacy: 138.3 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

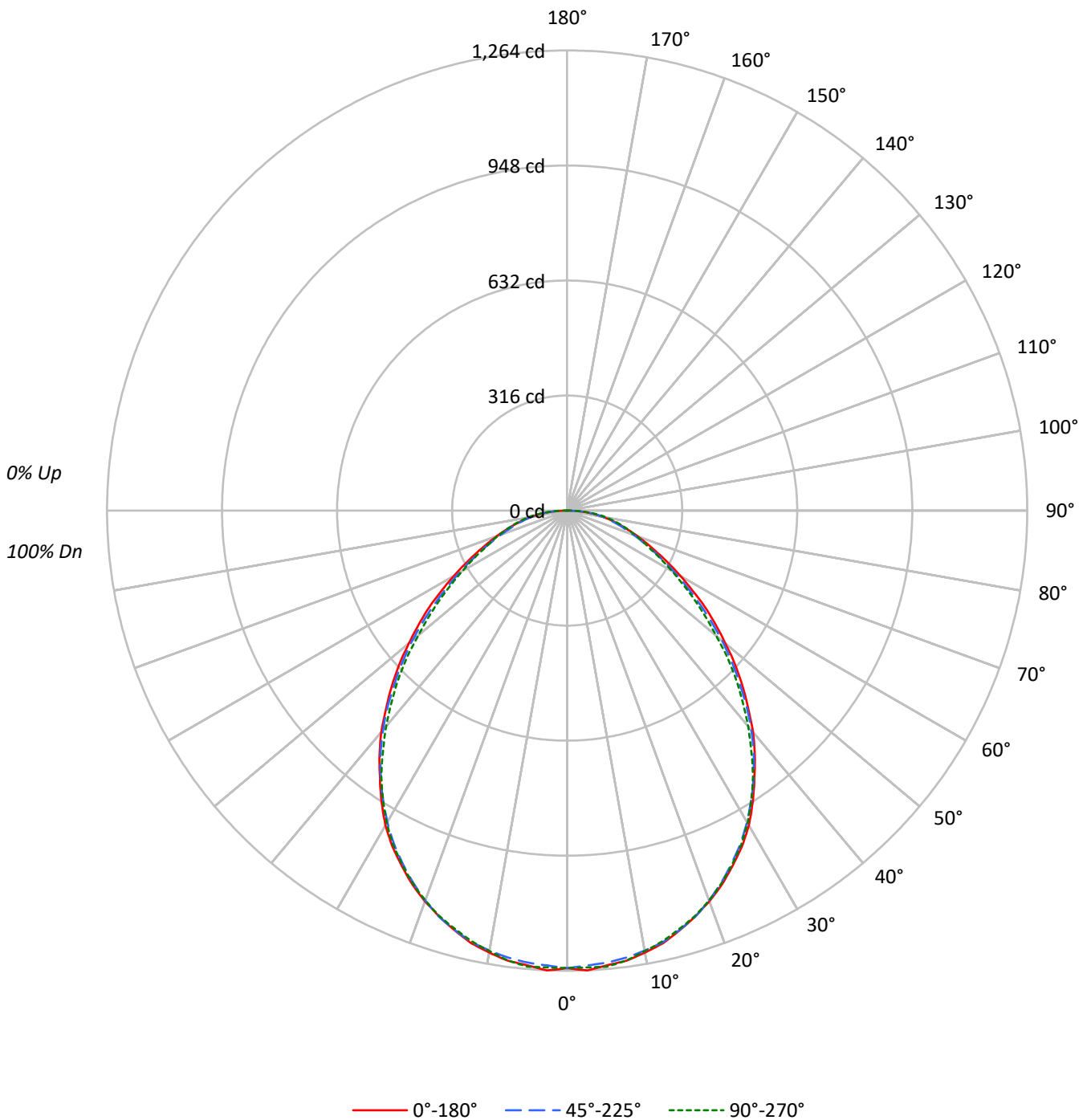
Input Watts (W): 20.925
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1691	1691	1691
5°	1693	1684	1698
10°	1684	1677	1679
15°	1663	1662	1657
20°	1635	1632	1632
25°	1597	1588	1592
30°	1551	1535	1540
35°	1473	1466	1462
40°	1395	1382	1358
45°	1297	1274	1249
50°	1188	1162	1118
55°	1085	1036	1001
60°	967	920	896
65°	870	825	813
70°	808	758	789
75°	773	738	800
80°	772	772	855
85°	801	810	903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.7	4.1
10°-20°	335.8	11.6
20°-30°	492.9	17.0
30°-40°	557.3	19.3
40°-50°	515.0	17.8
50°-60°	396.8	13.7
60°-70°	262.8	9.1
70°-80°	156.4	5.4
80°-90°	57.3	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°	947.4	32.7
0°-40°	1504.7	52.0
0°-60°	2416.5	83.5
0°-90°	2893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2893.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1257	1257	1257	1257	1257	
5°	1254	1254	1246	1247	1257	119
15°	1194	1192	1193	1192	1190	337
25°	1076	1073	1070	1069	1072	495
35°	897	896	893	888	890	561
45°	681	677	670	658	656	525
55°	462	453	442	430	427	412
65°	273	269	259	257	255	274
75°	149	145	142	149	154	158
85°	52	49	52	58	58	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1256.7	1256.7	1256.7	1256.7	1256.7
2.5°	1264.4	1257.8	1250.7	1250.7	1256.1
5°	1253.7	1253.7	1246.5	1247.1	1257.2
7.5°	1247.1	1243.5	1238.7	1238.7	1246.5
10°	1232.8	1229.8	1227.4	1226.2	1228.6
12.5°	1217.3	1212.5	1214.3	1212.5	1211.9
15°	1194.0	1191.6	1192.8	1192.2	1189.8
17.5°	1168.9	1167.7	1170.1	1166.0	1167.7
20°	1142.1	1138.5	1139.7	1137.3	1139.7
22.5°	1111.7	1109.3	1106.3	1103.3	1108.1
25°	1075.9	1072.9	1069.9	1068.7	1072.3
27.5°	1040.0	1035.3	1031.1	1029.9	1035.3
30°	998.3	992.9	988.1	986.9	991.1
32.5°	948.8	947.6	941.6	939.2	941.0
35°	896.8	895.6	892.7	888.5	890.3
37.5°	847.3	846.7	842.5	835.4	830.6
40°	794.2	790.0	787.0	776.9	773.3
42.5°	735.7	734.5	729.2	717.8	713.7
45°	681.4	676.7	669.5	657.6	656.4
47.5°	625.3	618.8	612.2	597.3	596.7
50°	567.5	562.7	554.9	540.0	534.0
52.5°	513.8	507.2	496.5	482.1	479.2
55°	462.4	452.9	441.6	429.6	426.6
57.5°	407.5	403.4	389.6	380.1	376.5
60°	359.2	355.6	341.9	333.0	333.0
62.5°	315.7	310.3	298.4	292.4	292.4
65°	273.3	269.1	259.0	256.6	255.4
67.5°	236.9	231.5	224.4	223.8	226.7
70°	205.3	198.7	192.7	198.7	200.5
72.5°	175.4	171.3	165.9	173.6	177.2
75°	148.6	145.0	142.0	148.6	153.9
77.5°	124.1	120.5	120.5	127.7	132.5
80°	99.6	97.3	99.6	105.6	110.4
82.5°	76.4	74.6	77.6	83.5	86.5
85°	51.9	48.9	52.5	57.9	58.5
87.5°	24.5	23.9	26.3	29.8	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)