

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: P293592

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-A-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2927.0 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

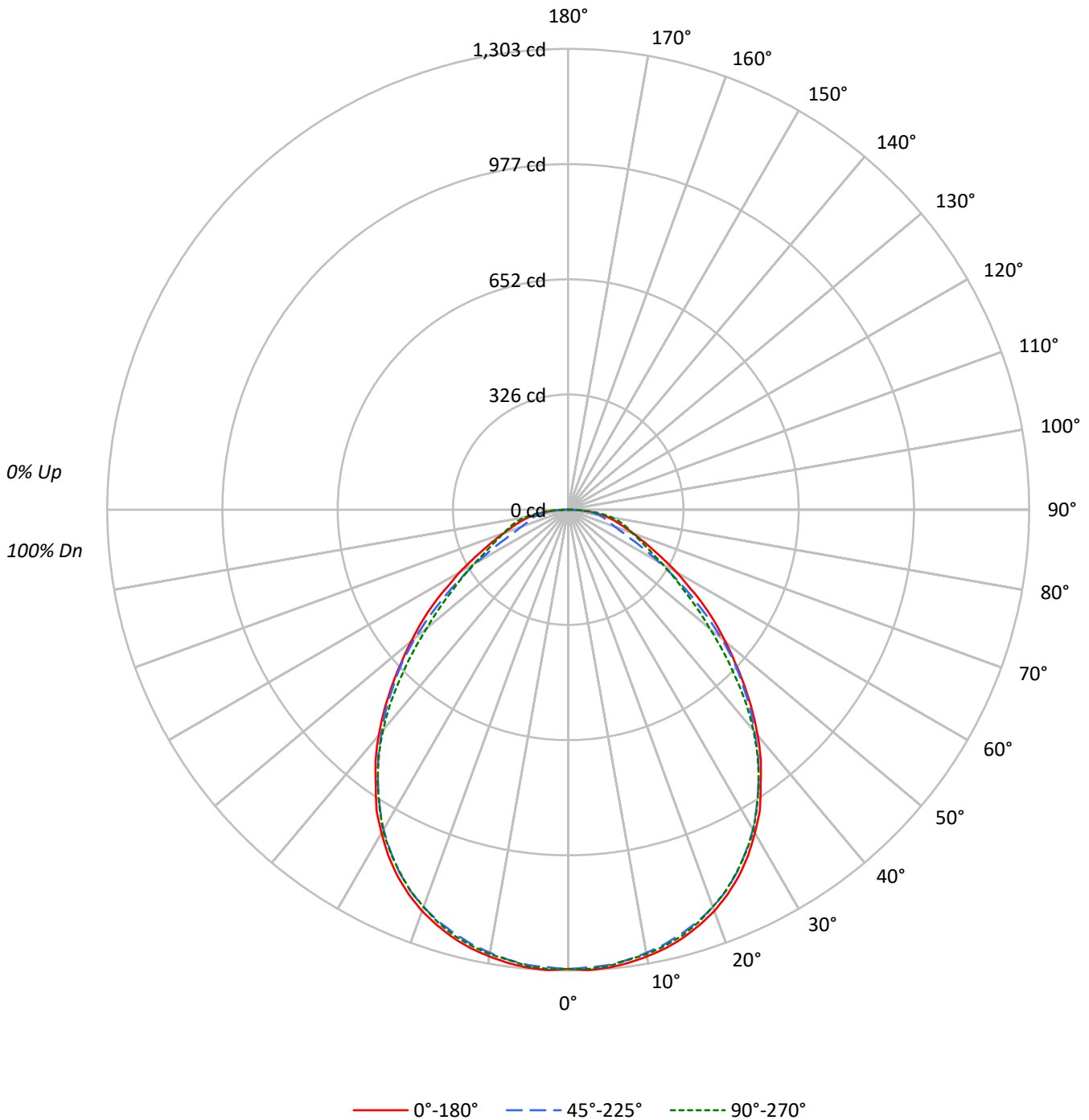
Input Watts (W): 20.925
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1747	1747	1747
5°	1756	1746	1750
10°	1753	1738	1743
15°	1746	1728	1736
20°	1729	1712	1711
25°	1696	1678	1676
30°	1640	1623	1626
35°	1557	1540	1542
40°	1464	1439	1430
45°	1342	1324	1272
50°	1213	1180	1091
55°	1089	992	941
60°	954	798	827
65°	832	628	762
70°	761	548	761
75°	762	583	839
80°	827	687	956
85°	908	775	1027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	4.2
10°-20°	351.0	12.0
20°-30°	520.4	17.8
30°-40°	587.1	20.1
40°-50°	531.7	18.2
50°-60°	383.6	13.1
60°-70°	229.0	7.8
70°-80°	141.6	4.8
80°-90°	59.6	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°	994.3	34.0
0°-40°	1581.4	54.0
0°-60°	2496.7	85.3
0°-90°	2927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1299	1299	1299	1299	1299	
5°	1300	1298	1293	1291	1296	124
15°	1254	1246	1241	1241	1246	353
25°	1142	1136	1130	1126	1129	525
35°	948	947	937	938	939	593
45°	705	701	696	679	668	544
55°	464	450	423	402	401	415
65°	261	230	197	224	239	263
75°	146	127	112	140	161	156
85°	59	52	50	66	66	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1298.7	1298.7	1298.7	1298.7	1298.7
2.5°	1303.2	1299.6	1295.1	1297.8	1300.0
5°	1300.0	1298.2	1292.8	1291.4	1296.0
7.5°	1293.2	1288.7	1283.8	1286.0	1284.2
10°	1282.8	1278.8	1272.4	1272.9	1276.1
12.5°	1270.2	1265.2	1258.4	1260.2	1263.0
15°	1253.5	1245.8	1240.8	1241.2	1246.2
17.5°	1232.2	1226.3	1220.0	1221.4	1223.6
20°	1207.8	1204.6	1195.6	1192.9	1195.1
22.5°	1177.0	1171.2	1166.2	1164.8	1165.3
25°	1142.2	1135.9	1130.0	1125.9	1129.1
27.5°	1101.5	1096.1	1088.4	1087.1	1089.8
30°	1055.4	1051.3	1044.5	1042.7	1046.8
32.5°	1008.4	1001.6	992.1	992.1	993.0
35°	948.2	946.9	937.4	937.8	938.7
37.5°	894.0	887.6	882.2	876.8	879.5
40°	833.8	826.6	819.4	815.7	814.4
42.5°	769.2	763.7	760.6	747.5	744.3
45°	705.4	700.9	695.9	678.7	668.3
47.5°	640.3	639.4	635.3	605.0	594.6
50°	579.7	578.3	563.9	531.8	521.4
52.5°	522.3	513.2	494.2	462.6	460.8
55°	464.4	449.9	422.8	402.0	401.1
57.5°	403.3	386.2	358.6	347.3	353.2
60°	354.5	328.3	296.6	298.0	307.5
62.5°	303.9	274.5	243.3	256.8	268.1
65°	261.4	230.2	197.2	223.8	239.2
67.5°	224.3	195.3	163.7	199.4	214.3
70°	193.5	170.0	139.3	176.8	193.5
72.5°	169.1	147.4	123.4	158.7	178.2
75°	146.5	127.1	112.1	139.7	161.4
77.5°	127.1	108.1	101.3	123.4	144.7
80°	106.7	89.5	88.6	107.6	123.4
82.5°	83.2	71.4	71.4	90.0	99.5
85°	58.8	51.5	50.2	65.6	66.5
87.5°	30.3	28.9	26.2	34.4	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)