

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: P293460

Luminaire Tested: **24GR-LD5-30-A-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293460
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-L82765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3012.0 lumens
Efficiency: N/A
Efficacy: 149.9 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

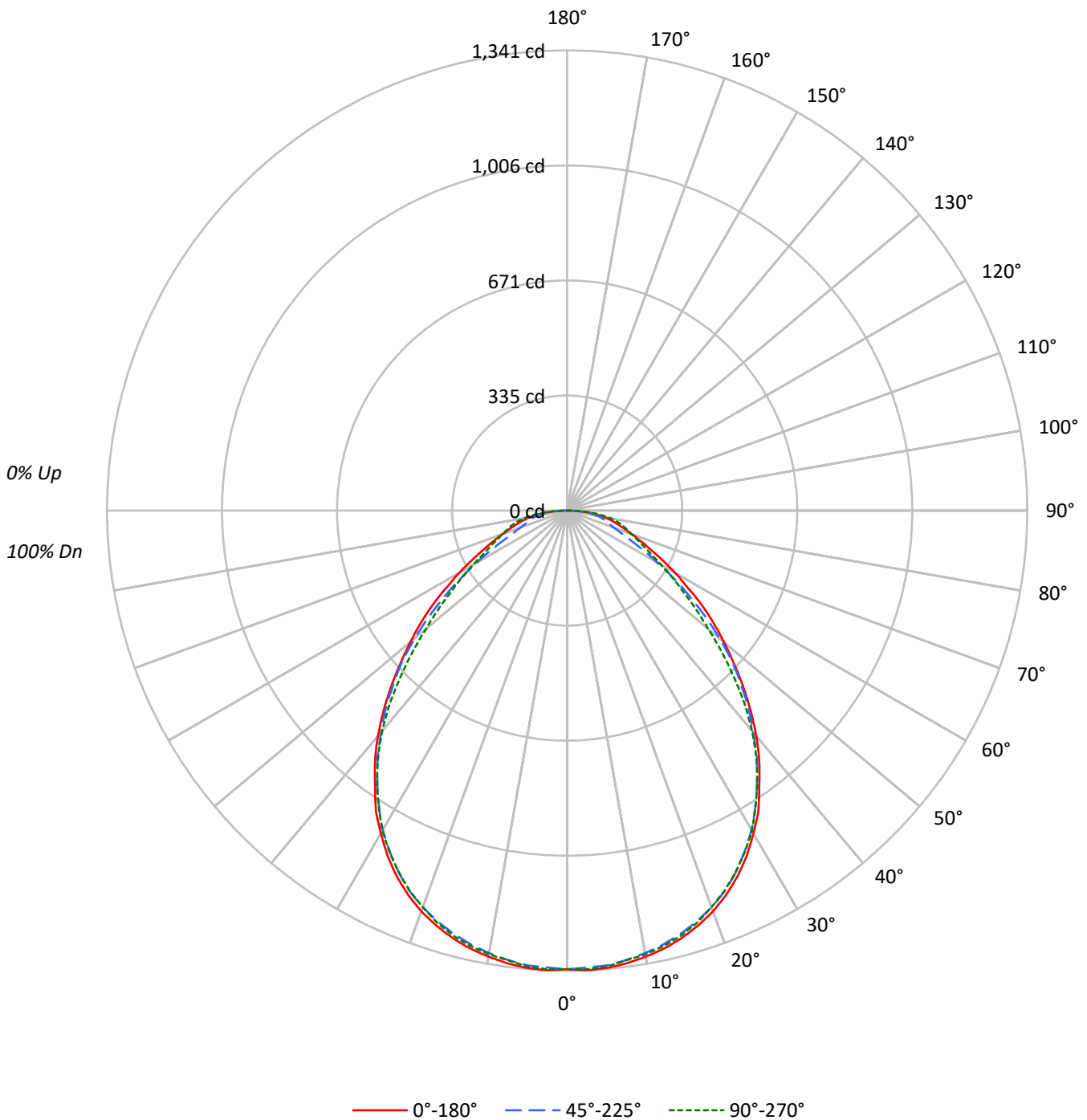
Input Watts (W): 20.088
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1798	1798	1798
5°	1807	1797	1801
10°	1804	1789	1794
15°	1797	1779	1786
20°	1780	1762	1761
25°	1745	1726	1725
30°	1687	1670	1674
35°	1603	1584	1587
40°	1507	1481	1472
45°	1381	1363	1309
50°	1249	1214	1123
55°	1121	1021	968
60°	982	821	851
65°	856	646	784
70°	784	564	784
75°	784	600	863
80°	851	707	984
85°	934	798	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	4.2
10°-20°	361.2	12.0
20°-30°	535.5	17.8
30°-40°	604.1	20.1
40°-50°	547.2	18.2
50°-60°	394.7	13.1
60°-70°	235.7	7.8
70°-80°	145.7	4.8
80°-90°	61.4	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°	1023.2	34.0
0°-40°	1627.3	54.0
0°-60°	2569.2	85.3
0°-90°	3012.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1338	1336	1330	1329	1334	127
15°	1290	1282	1277	1277	1282	364
25°	1175	1169	1163	1159	1162	540
35°	976	974	965	965	966	611
45°	726	721	716	698	688	559
55°	478	463	435	414	413	427
65°	269	237	203	230	246	271
75°	151	131	115	144	166	161
85°	60	53	52	68	68	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1336.4	1336.4	1336.4	1336.4	1336.4
2.5°	1341.0	1337.3	1332.7	1335.5	1337.8
5°	1337.8	1335.9	1330.3	1328.9	1333.6
7.5°	1330.8	1326.2	1321.0	1323.4	1321.5
10°	1320.1	1315.9	1309.4	1309.9	1313.1
12.5°	1307.1	1302.0	1295.0	1296.8	1299.6
15°	1289.9	1281.9	1276.8	1277.3	1282.4
17.5°	1268.0	1261.9	1255.4	1256.8	1259.1
20°	1242.9	1239.6	1230.3	1227.5	1229.8
22.5°	1211.2	1205.2	1200.1	1198.7	1199.1
25°	1175.4	1168.9	1162.8	1158.6	1161.9
27.5°	1133.5	1127.9	1120.0	1118.6	1121.4
30°	1086.0	1081.9	1074.9	1073.0	1077.2
32.5°	1037.7	1030.7	1020.9	1020.9	1021.8
35°	975.8	974.4	964.6	965.1	966.0
37.5°	919.9	913.4	907.8	902.2	905.0
40°	858.0	850.6	843.2	839.4	838.0
42.5°	791.5	785.9	782.7	769.2	765.9
45°	725.9	721.2	716.1	698.4	687.7
47.5°	658.9	658.0	653.8	622.6	611.9
50°	596.5	595.1	580.2	547.2	536.5
52.5°	537.4	528.1	508.6	476.0	474.2
55°	477.9	463.0	435.1	413.7	412.7
57.5°	415.1	397.4	369.0	357.4	363.4
60°	364.8	337.8	305.2	306.6	316.4
62.5°	312.7	282.4	250.3	264.3	275.9
65°	269.0	236.8	202.9	230.3	246.2
67.5°	230.8	201.0	168.4	205.2	220.6
70°	199.2	175.0	143.3	181.9	199.2
72.5°	174.0	151.7	127.0	163.3	183.3
75°	150.8	130.8	115.4	143.8	166.1
77.5°	130.8	111.2	104.2	127.0	148.9
80°	109.8	92.1	91.2	110.7	127.0
82.5°	85.6	73.5	73.5	92.6	102.4
85°	60.5	53.0	51.7	67.5	68.4
87.5°	31.2	29.8	27.0	35.4	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)