

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: P293589

Luminaire Tested: **24GR-LD5-30-A-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293589
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-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2851.0 lumens
Efficiency: N/A
Efficacy: 139.3 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

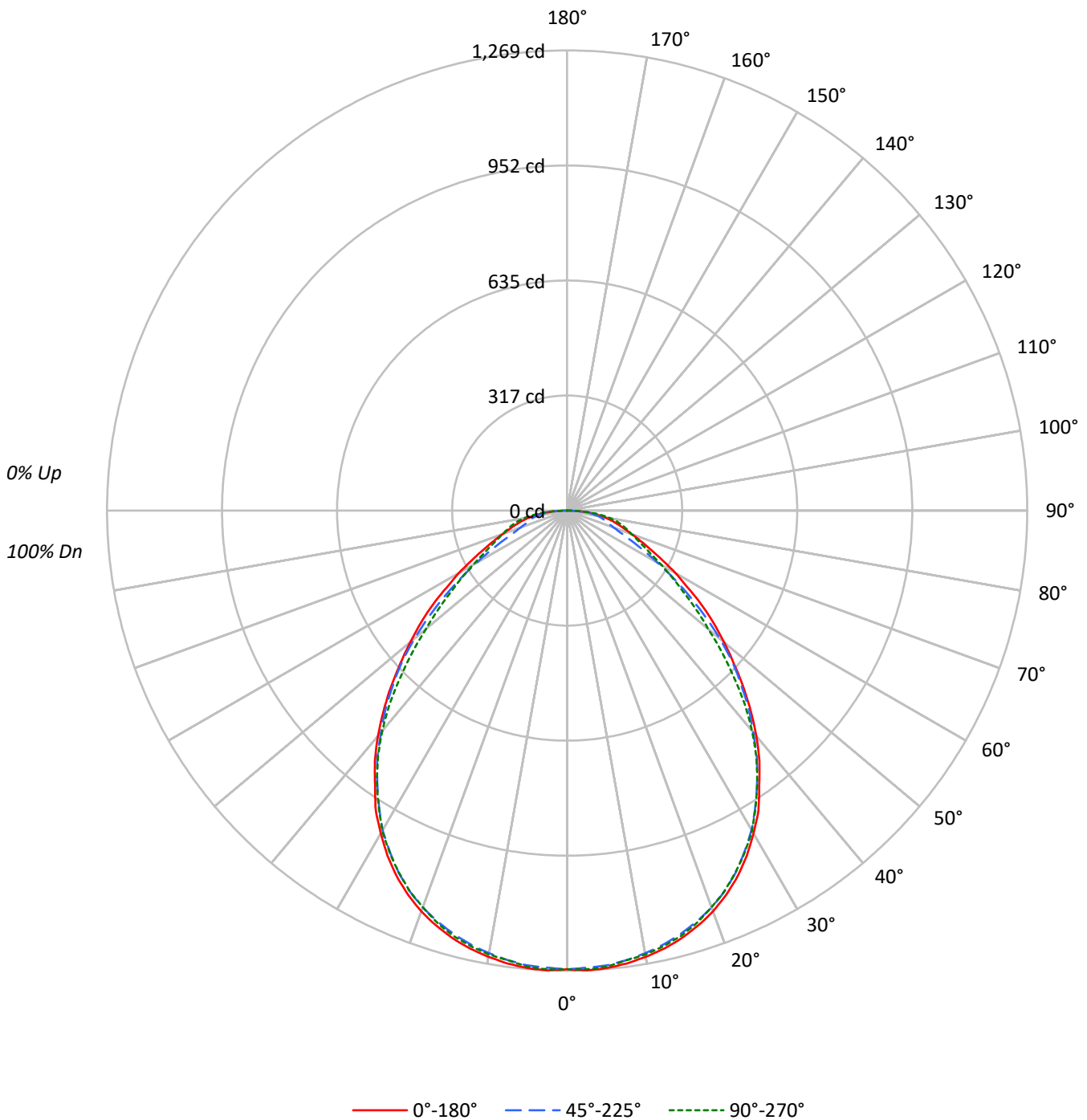
Input Watts (W): 20.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293589

CATALOG NUMBER: 24GR-LD5-30-A-UNV-L92765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P293589

CATALOG NUMBER: 24GR-LD5-30-A-UNV-L92765-W2A1-U-5000K

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	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°	1702	1702	1702
5°	1710	1701	1705
10°	1707	1693	1698
15°	1701	1684	1691
20°	1684	1667	1667
25°	1652	1634	1633
30°	1597	1581	1584
35°	1517	1500	1502
40°	1427	1402	1393
45°	1307	1290	1239
50°	1182	1150	1063
55°	1061	966	916
60°	929	777	806
65°	811	611	742
70°	742	534	742
75°	742	568	817
80°	805	669	931
85°	885	755	999



TEST NUMBER: P293589

CATALOG NUMBER: 24GR-LD5-30-A-UNV-L92765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	4.2
10°-20°	341.8	12.0
20°-30°	506.9	17.8
30°-40°	571.8	20.1
40°-50°	517.9	18.2
50°-60°	373.6	13.1
60°-70°	223.1	7.8
70°-80°	137.9	4.8
80°-90°	58.1	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°	968.5	34.0
0°-40°	1540.4	54.0
0°-60°	2431.9	85.3
0°-90°	2851.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2851.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1265	1265	1265	1265	1265	
5°	1266	1264	1259	1258	1262	120
15°	1221	1213	1209	1209	1214	344
25°	1113	1106	1101	1097	1100	511
35°	924	922	913	914	914	578
45°	687	683	678	661	651	529
55°	452	438	412	392	391	404
65°	255	224	192	218	233	256
75°	143	124	109	136	157	152
85°	57	50	49	64	65	60
90°	0	0	0	0	0	



TEST NUMBER: P293589

CATALOG NUMBER: 24GR-LD5-30-A-UNV-L92765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1265.0	1265.0	1265.0	1265.0	1265.0
2.5°	1269.4	1265.8	1261.4	1264.1	1266.3
5°	1266.3	1264.5	1259.2	1257.9	1262.3
7.5°	1259.7	1255.3	1250.4	1252.6	1250.9
10°	1249.5	1245.6	1239.4	1239.9	1242.9
12.5°	1237.2	1232.4	1225.8	1227.5	1230.2
15°	1220.9	1213.4	1208.6	1209.0	1213.9
17.5°	1200.2	1194.5	1188.3	1189.6	1191.8
20°	1176.4	1173.3	1164.5	1161.9	1164.1
22.5°	1146.5	1140.8	1135.9	1134.6	1135.0
25°	1112.6	1106.4	1100.7	1096.7	1099.8
27.5°	1072.9	1067.6	1060.1	1058.8	1061.5
30°	1028.0	1024.0	1017.4	1015.7	1019.6
32.5°	982.2	975.6	966.3	966.3	967.2
35°	923.6	922.3	913.0	913.5	914.4
37.5°	870.8	864.6	859.3	854.0	856.7
40°	812.2	805.1	798.1	794.6	793.2
42.5°	749.2	743.9	740.8	728.1	725.0
45°	687.1	682.7	677.8	661.1	651.0
47.5°	623.7	622.8	618.8	589.3	579.2
50°	564.6	563.3	549.2	518.0	507.8
52.5°	508.7	499.9	481.4	450.6	448.8
55°	452.3	438.2	411.8	391.6	390.7
57.5°	392.9	376.1	349.3	338.3	344.0
60°	345.3	319.8	288.9	290.3	299.5
62.5°	296.0	267.3	237.0	250.2	261.2
65°	254.6	224.2	192.0	218.0	233.0
67.5°	218.5	190.3	159.4	194.2	208.8
70°	188.5	165.6	135.7	172.2	188.5
72.5°	164.7	143.6	120.2	154.6	173.5
75°	142.7	123.8	109.2	136.1	157.2
77.5°	123.8	105.3	98.7	120.2	140.9
80°	103.9	87.2	86.3	104.8	120.2
82.5°	81.0	69.6	69.6	87.6	96.9
85°	57.3	50.2	48.9	63.9	64.7
87.5°	29.5	28.2	25.5	33.5	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)