

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: P292954

Luminaire Tested: **24GR-LD5-30-F1-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292954
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-L82765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2797.0 lumens
Efficiency: N/A
Efficacy: 139.9 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

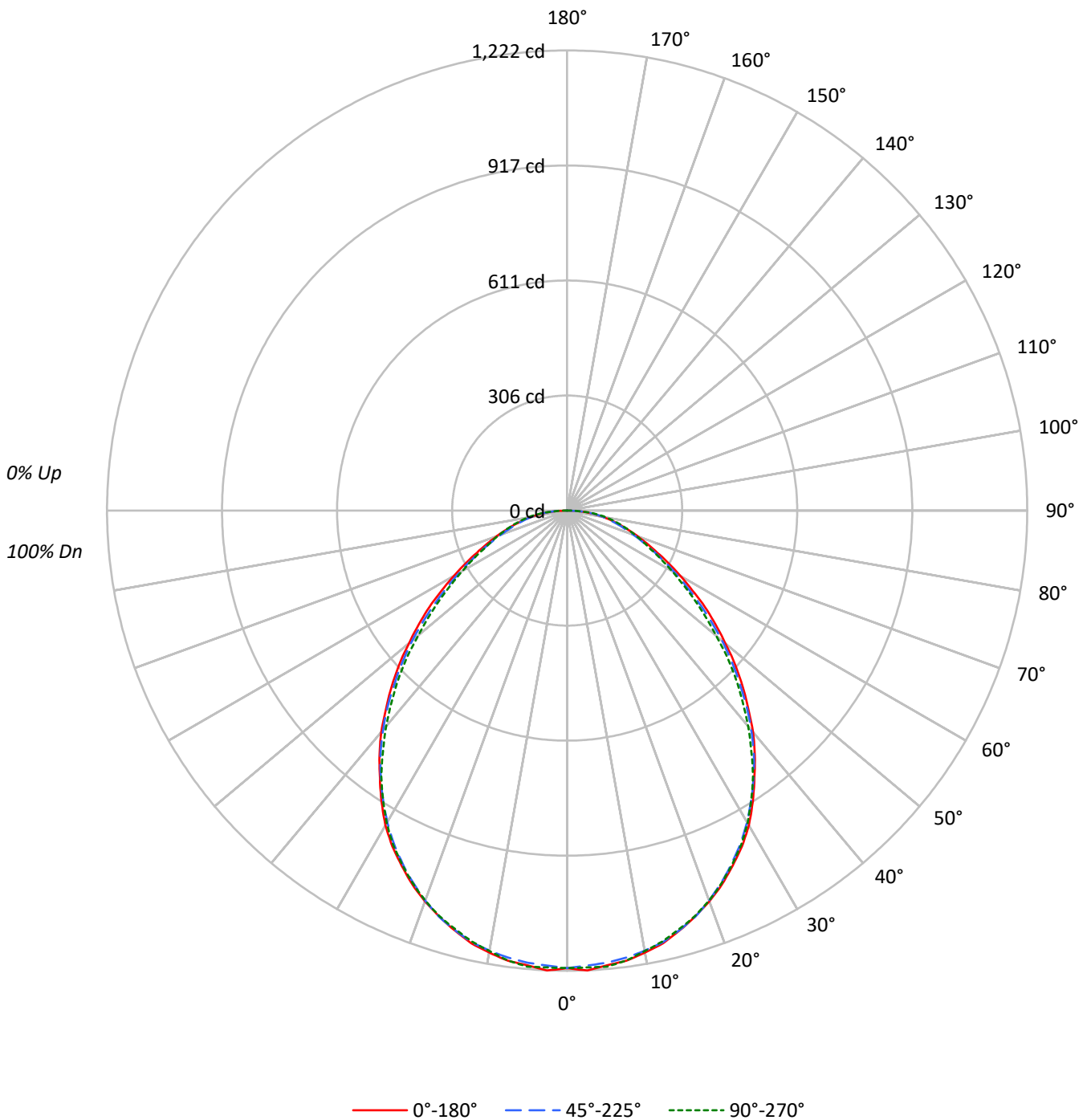
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1635	1635	1635
5°	1637	1628	1642
10°	1628	1621	1623
15°	1608	1606	1602
20°	1581	1578	1578
25°	1544	1536	1539
30°	1500	1484	1489
35°	1424	1418	1414
40°	1349	1336	1313
45°	1254	1232	1208
50°	1148	1123	1081
55°	1049	1001	968
60°	935	890	866
65°	841	797	786
70°	781	733	762
75°	747	714	774
80°	746	746	827
85°	775	784	872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	4.1
10°-20°	324.7	11.6
20°-30°	476.6	17.0
30°-40°	538.8	19.3
40°-50°	497.9	17.8
50°-60°	383.6	13.7
60°-70°	254.0	9.1
70°-80°	151.2	5.4
80°-90°	55.4	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°	916.0	32.7
0°-40°	1454.8	52.0
0°-60°	2336.3	83.5
0°-90°	2797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1215	1215	1215	1215	1215	
5°	1212	1212	1205	1206	1216	115
15°	1154	1152	1153	1153	1150	325
25°	1040	1037	1034	1033	1037	479
35°	867	866	863	859	861	543
45°	659	654	647	636	635	507
55°	447	438	427	415	412	399
65°	264	260	250	248	247	265
75°	144	140	137	144	149	153
85°	50	47	51	56	56	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1215.0	1215.0	1215.0	1215.0	1215.0
2.5°	1222.5	1216.1	1209.2	1209.2	1214.4
5°	1212.1	1212.1	1205.1	1205.7	1215.5
7.5°	1205.7	1202.3	1197.6	1197.6	1205.1
10°	1191.9	1189.0	1186.7	1185.5	1187.8
12.5°	1176.9	1172.3	1174.0	1172.3	1171.7
15°	1154.4	1152.1	1153.2	1152.6	1150.3
17.5°	1130.1	1129.0	1131.3	1127.3	1129.0
20°	1104.2	1100.7	1101.9	1099.6	1101.9
22.5°	1074.8	1072.5	1069.6	1066.7	1071.3
25°	1040.1	1037.3	1034.4	1033.2	1036.7
27.5°	1005.5	1000.9	996.9	995.7	1000.9
30°	965.2	960.0	955.3	954.2	958.2
32.5°	917.3	916.1	910.3	908.0	909.8
35°	867.1	865.9	863.0	859.0	860.7
37.5°	819.2	818.6	814.6	807.7	803.0
40°	767.9	763.8	760.9	751.1	747.7
42.5°	711.3	710.2	705.0	694.0	690.0
45°	658.8	654.2	647.3	635.7	634.6
47.5°	604.6	598.2	591.9	577.5	576.9
50°	548.6	544.0	536.5	522.1	516.3
52.5°	496.7	490.4	480.0	466.1	463.3
55°	447.1	437.9	426.9	415.4	412.5
57.5°	394.0	390.0	376.7	367.5	364.0
60°	347.3	343.8	330.6	321.9	321.9
62.5°	305.2	300.0	288.4	282.7	282.7
65°	264.2	260.2	250.4	248.1	246.9
67.5°	229.0	223.8	216.9	216.3	219.2
70°	198.5	192.1	186.3	192.1	193.8
72.5°	169.6	165.6	160.4	167.9	171.3
75°	143.6	140.2	137.3	143.6	148.8
77.5°	120.0	116.5	116.5	123.5	128.1
80°	96.3	94.0	96.3	102.1	106.7
82.5°	73.8	72.1	75.0	80.8	83.7
85°	50.2	47.3	50.8	56.0	56.5
87.5°	23.7	23.1	25.4	28.8	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)