

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: P294216

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-25)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-FGW080-UNV-L82765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2596.0 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

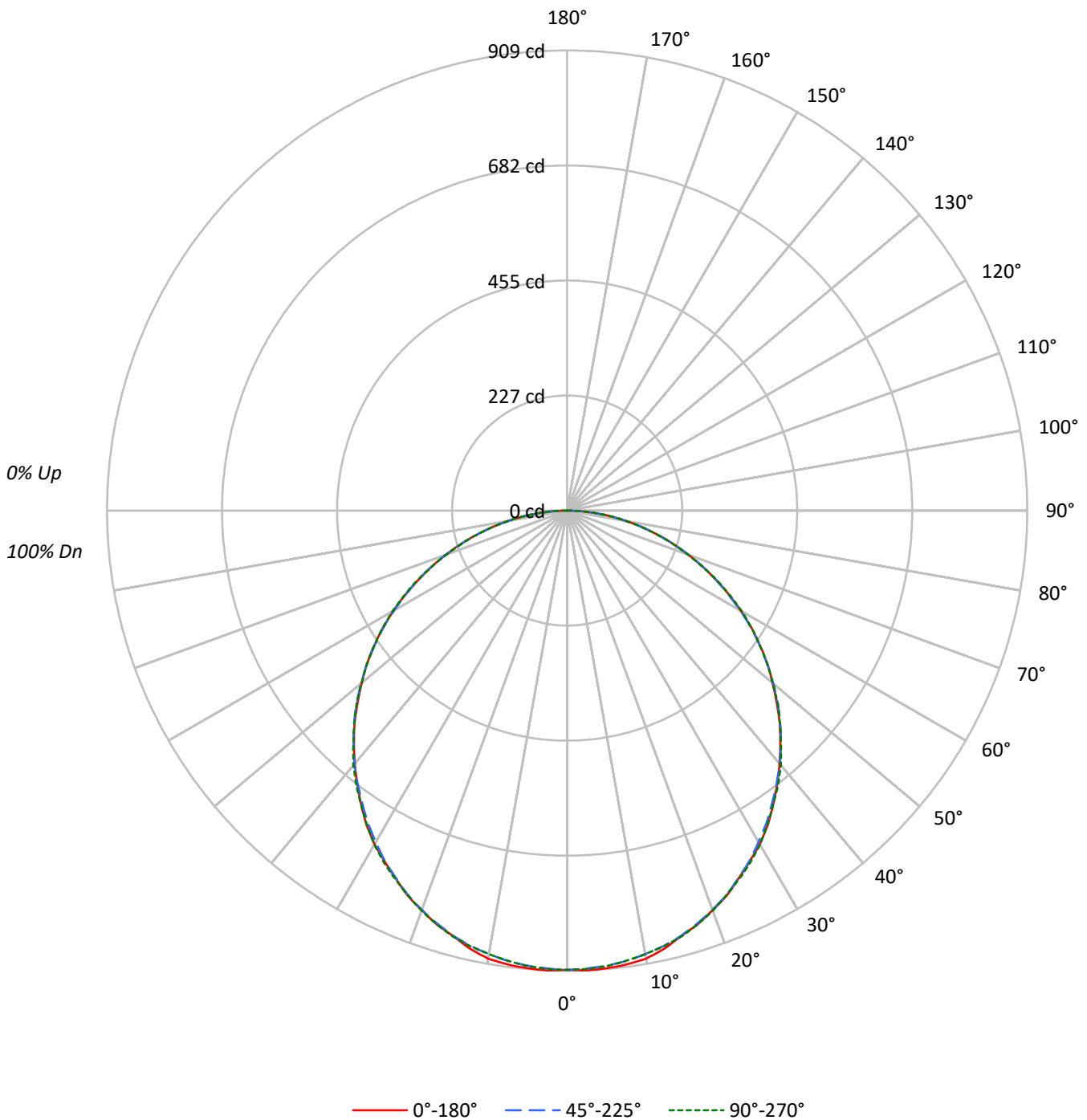
Input Watts (W): 20.088
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1221	1221	1221
5°	1225	1219	1220
10°	1228	1215	1215
15°	1212	1211	1214
20°	1203	1202	1204
25°	1190	1189	1193
30°	1182	1175	1183
35°	1166	1159	1166
40°	1146	1147	1154
45°	1130	1134	1131
50°	1109	1112	1110
55°	1091	1089	1091
60°	1066	1063	1073
65°	1033	1037	1041
70°	1000	1004	997
75°	964	964	964
80°	910	910	921
85°	841	851	823



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	3.3
10°-20°	245.3	9.4
20°-30°	369.6	14.2
30°-40°	442.7	17.1
40°-50°	458.2	17.7
50°-60°	415.5	16.0
60°-70°	322.1	12.4
70°-80°	195.9	7.5
80°-90°	60.9	2.3
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°	700.6	27.0
0°-40°	1143.3	44.0
0°-60°	2017.1	77.7
0°-90°	2596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2596.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	907	902	902	901	903	86
15°	870	871	869	866	871	246
25°	801	801	801	803	803	370
35°	710	705	706	709	710	444
45°	594	595	596	593	594	457
55°	465	463	464	466	465	416
65°	324	326	326	324	327	322
75°	186	185	186	185	186	196
85°	54	54	55	54	53	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.3	907.3	907.3	907.3	907.3
2.5°	909.2	905.5	905.5	904.3	906.1
5°	907.3	901.8	902.4	901.2	903.0
7.5°	904.3	896.9	897.5	896.3	896.9
10°	898.8	890.2	889.6	889.0	889.6
12.5°	886.5	881.6	881.0	879.8	881.6
15°	870.0	870.6	869.4	866.3	871.2
17.5°	857.1	856.5	855.3	852.2	857.1
20°	840.0	840.6	839.4	838.1	841.2
22.5°	823.5	821.6	822.2	821.6	822.2
25°	801.4	801.4	800.8	803.3	803.3
27.5°	781.2	778.8	780.0	782.4	783.7
30°	761.0	754.9	756.1	758.6	761.6
32.5°	737.1	731.0	732.2	734.7	735.9
35°	709.6	704.7	705.9	709.0	709.6
37.5°	681.4	678.4	679.6	682.0	683.9
40°	652.6	651.4	653.3	652.6	656.9
42.5°	623.3	622.6	624.5	624.5	625.1
45°	593.9	595.1	595.7	593.3	594.5
47.5°	561.4	562.0	564.5	563.3	563.9
50°	529.6	529.0	531.4	532.0	530.2
52.5°	499.0	495.9	498.4	499.6	498.4
55°	465.3	462.8	464.1	465.9	465.3
57.5°	432.2	429.8	430.4	433.5	432.2
60°	396.1	395.5	394.9	397.3	398.6
62.5°	360.6	360.0	358.8	361.2	362.4
65°	324.5	326.3	325.7	324.5	326.9
67.5°	290.2	292.0	290.2	289.0	289.0
70°	254.1	255.9	255.3	254.1	253.5
72.5°	220.4	220.4	219.2	218.6	219.2
75°	185.5	184.9	185.5	184.9	185.5
77.5°	151.2	151.8	151.8	151.8	151.2
80°	117.5	117.5	117.5	118.2	118.8
82.5°	86.3	84.5	86.3	85.1	85.7
85°	54.5	53.9	55.1	54.5	53.3
87.5°	24.5	25.1	25.1	25.7	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)