

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: P294219

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294219
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-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2736.0 lumens
Efficiency: N/A
Efficacy: 133.7 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

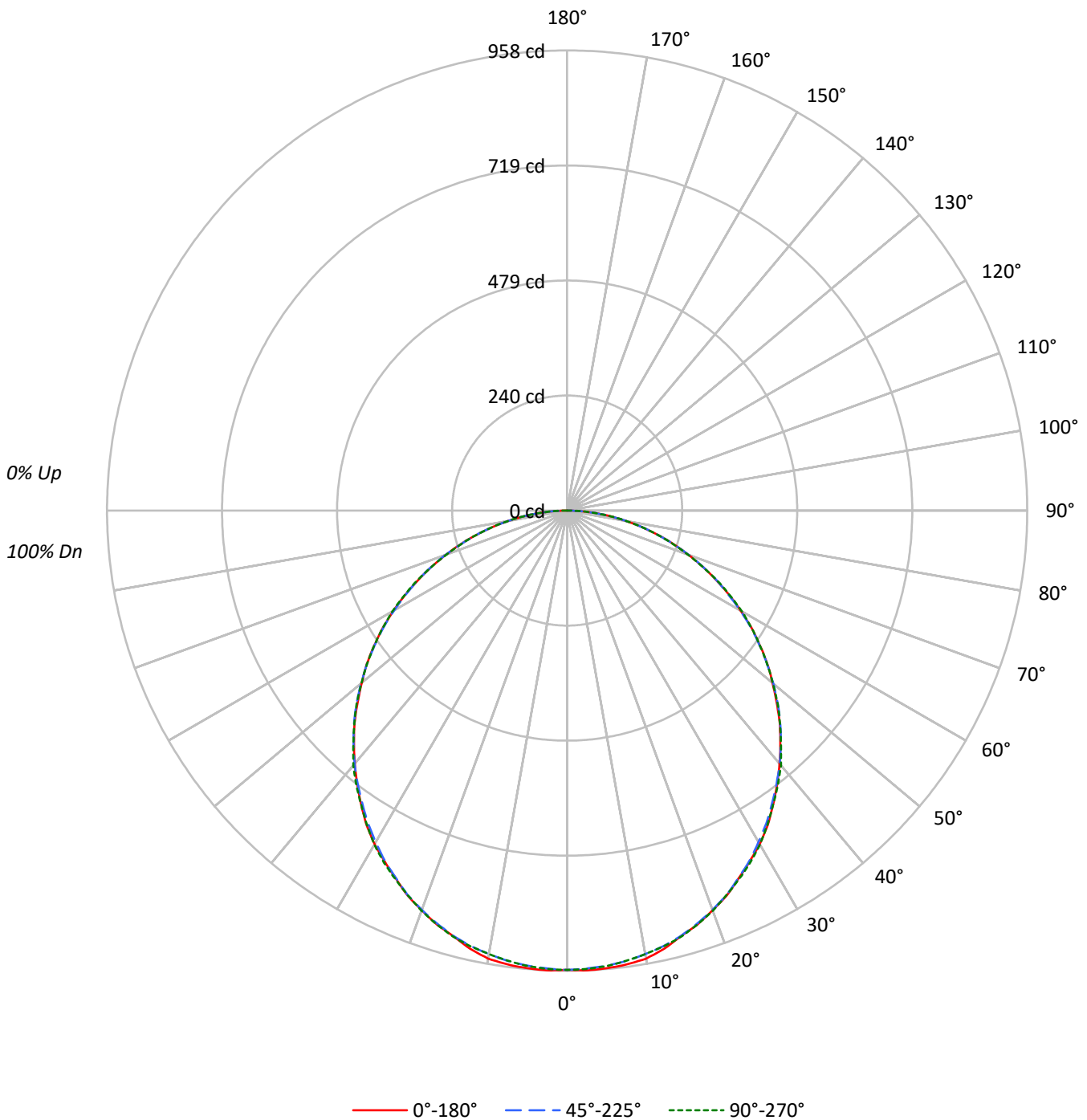
Input Watts (W): 20.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1287	1287	1287
5°	1292	1285	1285
10°	1294	1281	1281
15°	1277	1276	1279
20°	1268	1267	1269
25°	1254	1253	1257
30°	1246	1238	1247
35°	1228	1222	1228
40°	1208	1209	1216
45°	1191	1195	1192
50°	1168	1172	1170
55°	1150	1147	1150
60°	1123	1120	1130
65°	1089	1093	1097
70°	1054	1059	1051
75°	1016	1016	1016
80°	960	960	970
85°	886	897	866



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	3.3
10°-20°	258.5	9.4
20°-30°	389.5	14.2
30°-40°	466.5	17.1
40°-50°	482.9	17.7
50°-60°	437.9	16.0
60°-70°	339.5	12.4
70°-80°	206.5	7.5
80°-90°	64.2	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°	738.4	27.0
0°-40°	1205.0	44.0
0°-60°	2125.8	77.7
0°-90°	2736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	956	950	951	950	952	91
15°	917	918	916	913	918	259
25°	845	845	844	847	847	390
35°	748	743	744	747	748	468
45°	626	627	628	625	626	482
55°	490	488	489	491	490	438
65°	342	344	343	342	345	339
75°	196	195	196	195	196	207
85°	57	57	58	57	56	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	956.3	956.3	956.3	956.3	956.3
2.5°	958.2	954.3	954.3	953.0	955.0
5°	956.3	950.5	951.1	949.8	951.7
7.5°	953.0	945.3	945.9	944.6	945.3
10°	947.2	938.2	937.6	936.9	937.6
12.5°	934.3	929.2	928.5	927.2	929.2
15°	916.9	917.5	916.3	913.0	918.2
17.5°	903.4	902.7	901.4	898.2	903.4
20°	885.3	885.9	884.6	883.3	886.6
22.5°	867.9	865.9	866.6	865.9	866.6
25°	844.6	844.6	844.0	846.6	846.6
27.5°	823.3	820.8	822.1	824.6	825.9
30°	802.0	795.6	796.9	799.5	802.7
32.5°	776.9	770.4	771.7	774.3	775.6
35°	747.8	742.7	744.0	747.2	747.8
37.5°	718.2	714.9	716.2	718.8	720.7
40°	687.8	686.5	688.5	687.8	692.4
42.5°	656.9	656.2	658.2	658.2	658.8
45°	625.9	627.2	627.8	625.2	626.5
47.5°	591.7	592.3	594.9	593.6	594.3
50°	558.1	557.5	560.1	560.7	558.8
52.5°	525.9	522.7	525.2	526.5	525.2
55°	490.4	487.8	489.1	491.0	490.4
57.5°	455.5	453.0	453.6	456.8	455.5
60°	417.5	416.8	416.2	418.8	420.1
62.5°	380.1	379.4	378.1	380.7	382.0
65°	342.0	343.9	343.3	342.0	344.6
67.5°	305.8	307.8	305.8	304.6	304.6
70°	267.8	269.7	269.1	267.8	267.1
72.5°	232.3	232.3	231.0	230.4	231.0
75°	195.5	194.9	195.5	194.9	195.5
77.5°	159.4	160.0	160.0	160.0	159.4
80°	123.9	123.9	123.9	124.5	125.2
82.5°	91.0	89.0	91.0	89.7	90.3
85°	57.4	56.8	58.1	57.4	56.1
87.5°	25.8	26.5	26.5	27.1	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)