

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: P294172

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294172
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-L83050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2817.0 lumens
Efficiency: N/A
Efficacy: 134.0 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

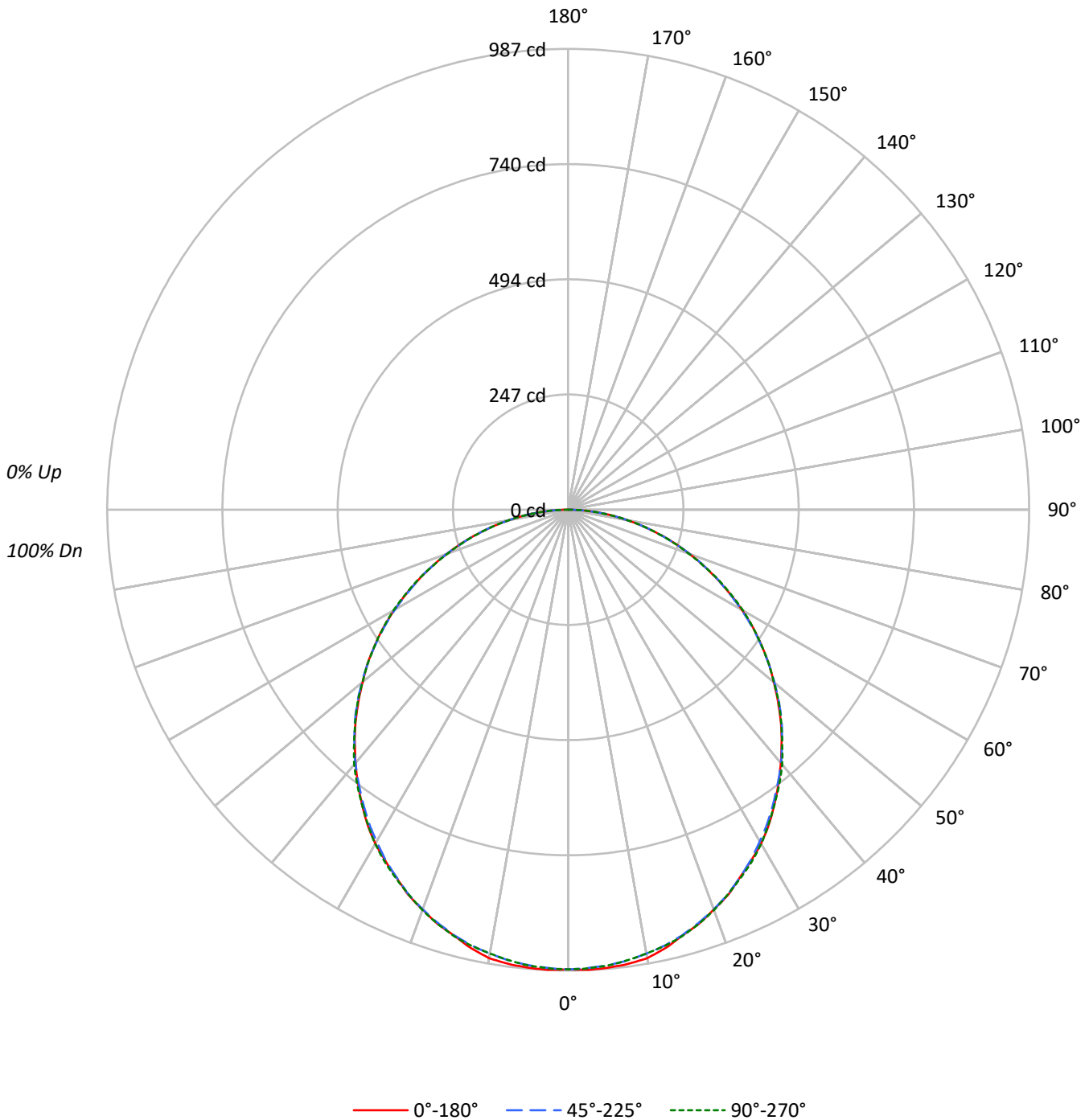
Input Watts (W): 21.018
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1325	1325	1325
5°	1330	1323	1323
10°	1332	1319	1319
15°	1315	1314	1317
20°	1305	1304	1307
25°	1291	1290	1294
30°	1283	1275	1284
35°	1265	1258	1265
40°	1244	1245	1252
45°	1226	1230	1228
50°	1203	1207	1204
55°	1184	1181	1184
60°	1157	1153	1164
65°	1121	1125	1130
70°	1085	1090	1082
75°	1046	1046	1046
80°	989	989	999
85°	912	923	892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.1	3.3
10°-20°	266.1	9.4
20°-30°	401.1	14.2
30°-40°	480.4	17.1
40°-50°	497.2	17.7
50°-60°	450.9	16.0
60°-70°	349.5	12.4
70°-80°	212.6	7.5
80°-90°	66.1	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°	760.3	27.0
0°-40°	1240.7	44.0
0°-60°	2188.8	77.7
0°-90°	2817.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2817.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	985	985	985	985	985	
5°	985	979	979	978	980	94
15°	944	945	943	940	945	267
25°	870	870	869	872	872	401
35°	770	765	766	769	770	482
45°	644	646	646	644	645	496
55°	505	502	504	506	505	451
65°	352	354	353	352	355	349
75°	201	201	201	201	201	213
85°	59	58	60	59	58	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	984.6	984.6	984.6	984.6	984.6
2.5°	986.6	982.6	982.6	981.3	983.2
5°	984.6	978.6	979.3	977.9	979.9
7.5°	981.3	973.3	973.9	972.6	973.3
10°	975.3	966.0	965.3	964.6	965.3
12.5°	962.0	956.7	956.0	954.7	956.7
15°	944.0	944.7	943.4	940.1	945.4
17.5°	930.1	929.4	928.1	924.8	930.1
20°	911.5	912.2	910.8	909.5	912.8
22.5°	893.6	891.6	892.2	891.6	892.2
25°	869.6	869.6	869.0	871.6	871.6
27.5°	847.7	845.1	846.4	849.0	850.4
30°	825.8	819.1	820.5	823.1	826.5
32.5°	799.9	793.2	794.6	797.2	798.6
35°	770.0	764.7	766.0	769.3	770.0
37.5°	739.4	736.1	737.4	740.1	742.1
40°	708.2	706.9	708.9	708.2	712.9
42.5°	676.3	675.6	677.6	677.6	678.3
45°	644.4	645.8	646.4	643.8	645.1
47.5°	609.2	609.9	612.5	611.2	611.9
50°	574.7	574.0	576.7	577.3	575.3
52.5°	541.4	538.1	540.8	542.1	540.8
55°	504.9	502.3	503.6	505.6	504.9
57.5°	469.0	466.4	467.0	470.4	469.0
60°	429.8	429.2	428.5	431.2	432.5
62.5°	391.3	390.6	389.3	392.0	393.3
65°	352.1	354.1	353.4	352.1	354.8
67.5°	314.9	316.9	314.9	313.6	313.6
70°	275.7	277.7	277.0	275.7	275.0
72.5°	239.2	239.2	237.8	237.2	237.8
75°	201.3	200.6	201.3	200.6	201.3
77.5°	164.1	164.8	164.8	164.8	164.1
80°	127.6	127.6	127.6	128.2	128.9
82.5°	93.7	91.7	93.7	92.3	93.0
85°	59.1	58.5	59.8	59.1	57.8
87.5°	26.6	27.2	27.2	27.9	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)