

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: P294171

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294171
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2790.0 lumens
Efficiency: N/A
Efficacy: 136.4 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

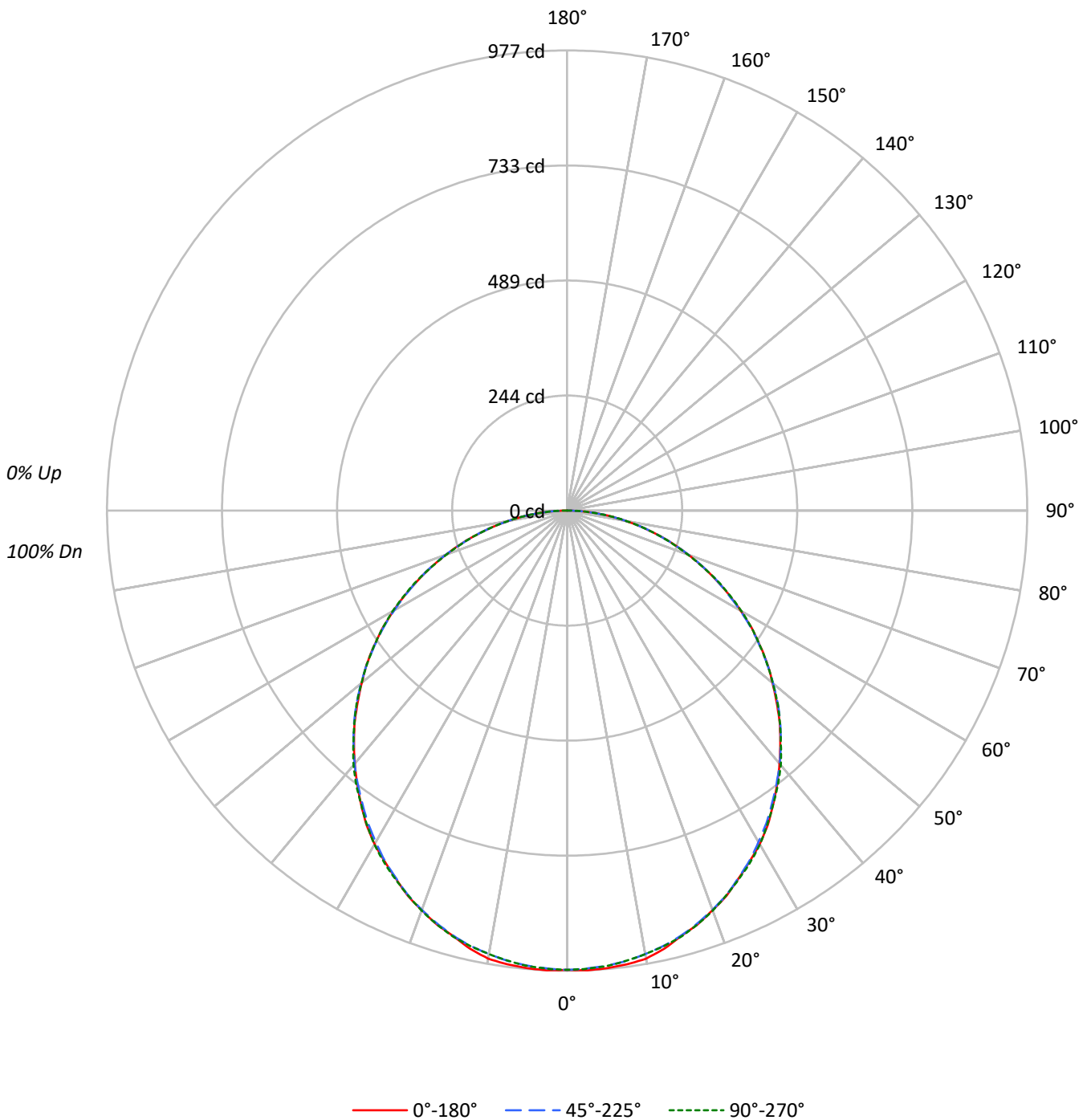
Input Watts (W): 20.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1312	1312	1312
5°	1317	1310	1311
10°	1320	1306	1306
15°	1302	1301	1304
20°	1293	1292	1295
25°	1279	1278	1282
30°	1271	1262	1272
35°	1253	1246	1253
40°	1232	1233	1240
45°	1214	1218	1216
50°	1191	1195	1193
55°	1173	1170	1173
60°	1146	1142	1153
65°	1110	1114	1119
70°	1074	1079	1072
75°	1037	1037	1037
80°	979	979	989
85°	905	914	883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	3.3
10°-20°	263.6	9.4
20°-30°	397.2	14.2
30°-40°	475.8	17.1
40°-50°	492.5	17.7
50°-60°	446.5	16.0
60°-70°	346.2	12.4
70°-80°	210.5	7.5
80°-90°	65.5	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°	753.0	27.0
0°-40°	1228.8	44.0
0°-60°	2167.8	77.7
0°-90°	2790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2790.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	975	975	975	975	975	
5°	975	969	970	969	970	93
15°	935	936	934	931	936	264
25°	861	861	861	863	863	398
35°	763	757	759	762	763	477
45°	638	640	640	638	639	492
55°	500	497	499	501	500	447
65°	349	351	350	349	351	346
75°	199	199	199	199	199	211
85°	59	58	59	59	57	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	975.1	975.1	975.1	975.1	975.1
2.5°	977.1	973.2	973.2	971.8	973.8
5°	975.1	969.2	969.9	968.6	970.5
7.5°	971.8	964.0	964.6	963.3	964.0
10°	965.9	956.7	956.1	955.4	956.1
12.5°	952.8	947.5	946.8	945.5	947.5
15°	935.0	935.7	934.3	931.1	936.3
17.5°	921.2	920.5	919.2	915.9	921.2
20°	902.8	903.4	902.1	900.8	904.1
22.5°	885.0	883.0	883.7	883.0	883.7
25°	861.3	861.3	860.6	863.3	863.3
27.5°	839.6	837.0	838.3	840.9	842.2
30°	817.9	811.3	812.6	815.2	818.5
32.5°	792.2	785.6	787.0	789.6	790.9
35°	762.6	757.3	758.7	761.9	762.6
37.5°	732.3	729.0	730.4	733.0	735.0
40°	701.4	700.1	702.1	701.4	706.0
42.5°	669.8	669.2	671.1	671.1	671.8
45°	638.2	639.6	640.2	637.6	638.9
47.5°	603.4	604.0	606.7	605.3	606.0
50°	569.2	568.5	571.1	571.8	569.8
52.5°	536.3	533.0	535.6	536.9	535.6
55°	500.1	497.4	498.8	500.7	500.1
57.5°	464.5	461.9	462.6	465.9	464.5
60°	425.7	425.1	424.4	427.0	428.3
62.5°	387.6	386.9	385.6	388.2	389.5
65°	348.7	350.7	350.0	348.7	351.4
67.5°	311.9	313.9	311.9	310.6	310.6
70°	273.1	275.0	274.4	273.1	272.4
72.5°	236.9	236.9	235.6	234.9	235.6
75°	199.4	198.7	199.4	198.7	199.4
77.5°	162.5	163.2	163.2	163.2	162.5
80°	126.3	126.3	126.3	127.0	127.6
82.5°	92.8	90.8	92.8	91.5	92.1
85°	58.6	57.9	59.2	58.6	57.2
87.5°	26.3	27.0	27.0	27.6	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)