

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: P294227

Luminaire Tested: **24GR-LD5-34-FGW080-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294227
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-LD5-34-FGW080-UNV-L82765-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: 3092.0 lumens
Efficiency: N/A
Efficacy: 131.9 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

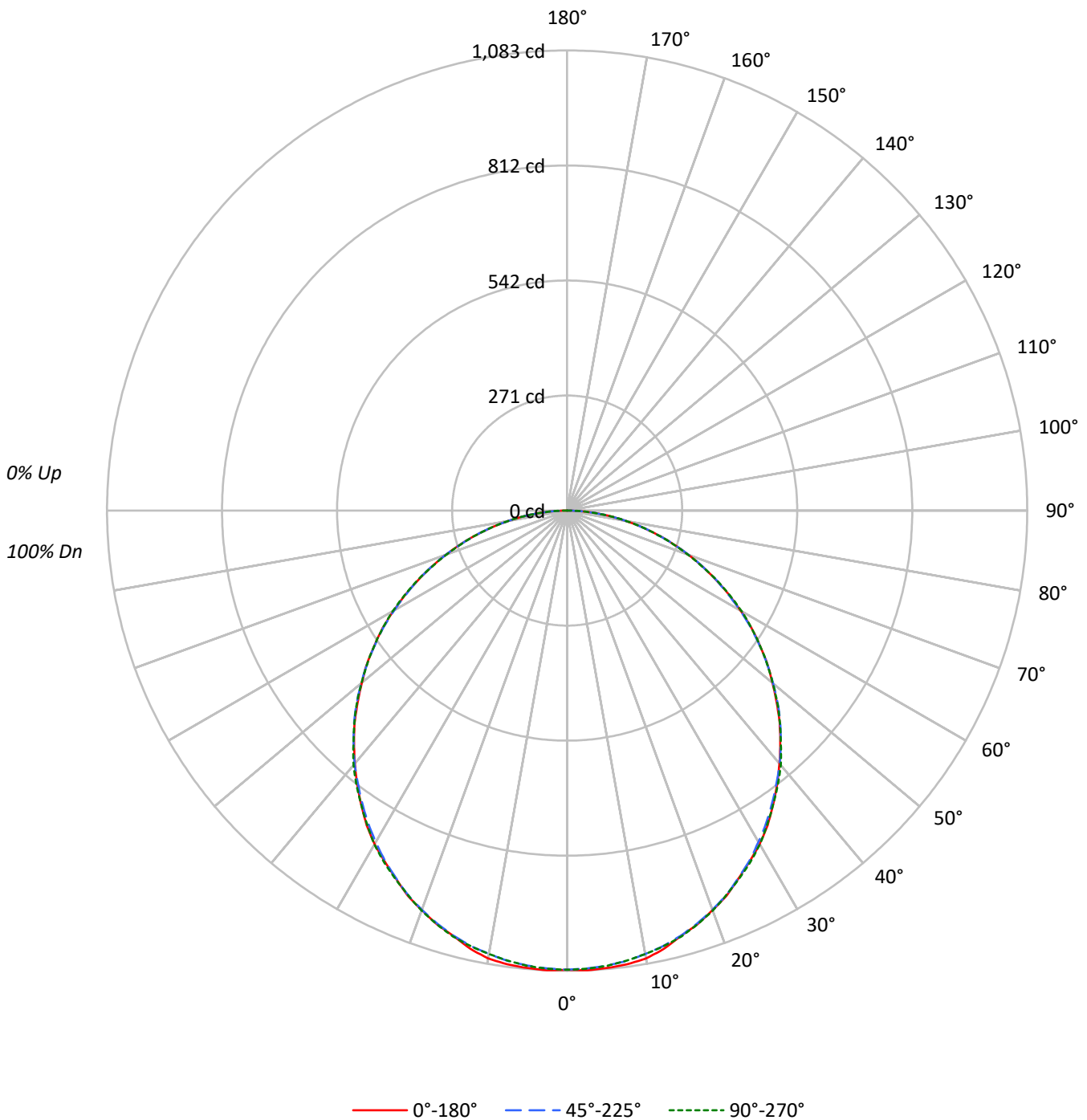
Input Watts (W): 23.436
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1454	1454	1454
5°	1460	1452	1453
10°	1463	1448	1448
15°	1443	1442	1445
20°	1433	1431	1435
25°	1417	1416	1420
30°	1408	1399	1409
35°	1388	1381	1388
40°	1365	1367	1374
45°	1346	1350	1347
50°	1320	1325	1322
55°	1300	1297	1300
60°	1270	1266	1277
65°	1230	1235	1240
70°	1190	1196	1188
75°	1149	1149	1149
80°	1085	1085	1096
85°	1002	1013	979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	3.3
10°-20°	292.1	9.4
20°-30°	440.2	14.2
30°-40°	527.3	17.1
40°-50°	545.8	17.7
50°-60°	494.9	16.0
60°-70°	383.7	12.4
70°-80°	233.3	7.5
80°-90°	72.6	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°	834.5	27.0
0°-40°	1361.8	44.0
0°-60°	2402.4	77.7
0°-90°	3092.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3092.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1081	1081	1081	1081	1081	
5°	1081	1074	1075	1073	1076	103
15°	1036	1037	1036	1032	1038	293
25°	954	954	954	957	957	441
35°	845	839	841	844	845	529
45°	707	709	710	707	708	545
55°	554	551	553	555	554	495
65°	386	389	388	386	389	383
75°	221	220	221	220	221	233
85°	65	64	66	65	63	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1080.7	1080.7	1080.7	1080.7	1080.7
2.5°	1082.9	1078.5	1078.5	1077.0	1079.2
5°	1080.7	1074.1	1074.9	1073.4	1075.6
7.5°	1077.0	1068.3	1069.0	1067.6	1068.3
10°	1070.5	1060.3	1059.5	1058.8	1059.5
12.5°	1055.9	1050.1	1049.3	1047.9	1050.1
15°	1036.2	1036.9	1035.5	1031.8	1037.7
17.5°	1020.9	1020.2	1018.7	1015.1	1020.9
20°	1000.5	1001.2	999.7	998.3	1001.9
22.5°	980.8	978.6	979.3	978.6	979.3
25°	954.5	954.5	953.8	956.7	956.7
27.5°	930.5	927.6	929.0	931.9	933.4
30°	906.4	899.1	900.6	903.5	907.1
32.5°	878.0	870.7	872.1	875.1	876.5
35°	845.2	839.3	840.8	844.4	845.2
37.5°	811.6	808.0	809.4	812.3	814.5
40°	777.3	775.9	778.1	777.3	782.4
42.5°	742.3	741.6	743.8	743.8	744.5
45°	707.3	708.8	709.5	706.6	708.1
47.5°	668.7	669.4	672.3	670.9	671.6
50°	630.8	630.0	633.0	633.7	631.5
52.5°	594.3	590.7	593.6	595.0	593.6
55°	554.2	551.3	552.7	554.9	554.2
57.5°	514.8	511.9	512.6	516.3	514.8
60°	471.8	471.1	470.3	473.3	474.7
62.5°	429.5	428.8	427.3	430.2	431.7
65°	386.5	388.7	387.9	386.5	389.4
67.5°	345.6	347.8	345.6	344.2	344.2
70°	302.6	304.8	304.1	302.6	301.9
72.5°	262.5	262.5	261.1	260.3	261.1
75°	221.0	220.2	221.0	220.2	221.0
77.5°	180.1	180.8	180.8	180.8	180.1
80°	140.0	140.0	140.0	140.7	141.5
82.5°	102.8	100.6	102.8	101.4	102.1
85°	64.9	64.2	65.6	64.9	63.4
87.5°	29.2	29.9	29.9	30.6	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)