

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: P294222

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294222
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-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2778.0 lumens
Efficiency: N/A
Efficacy: 132.8 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

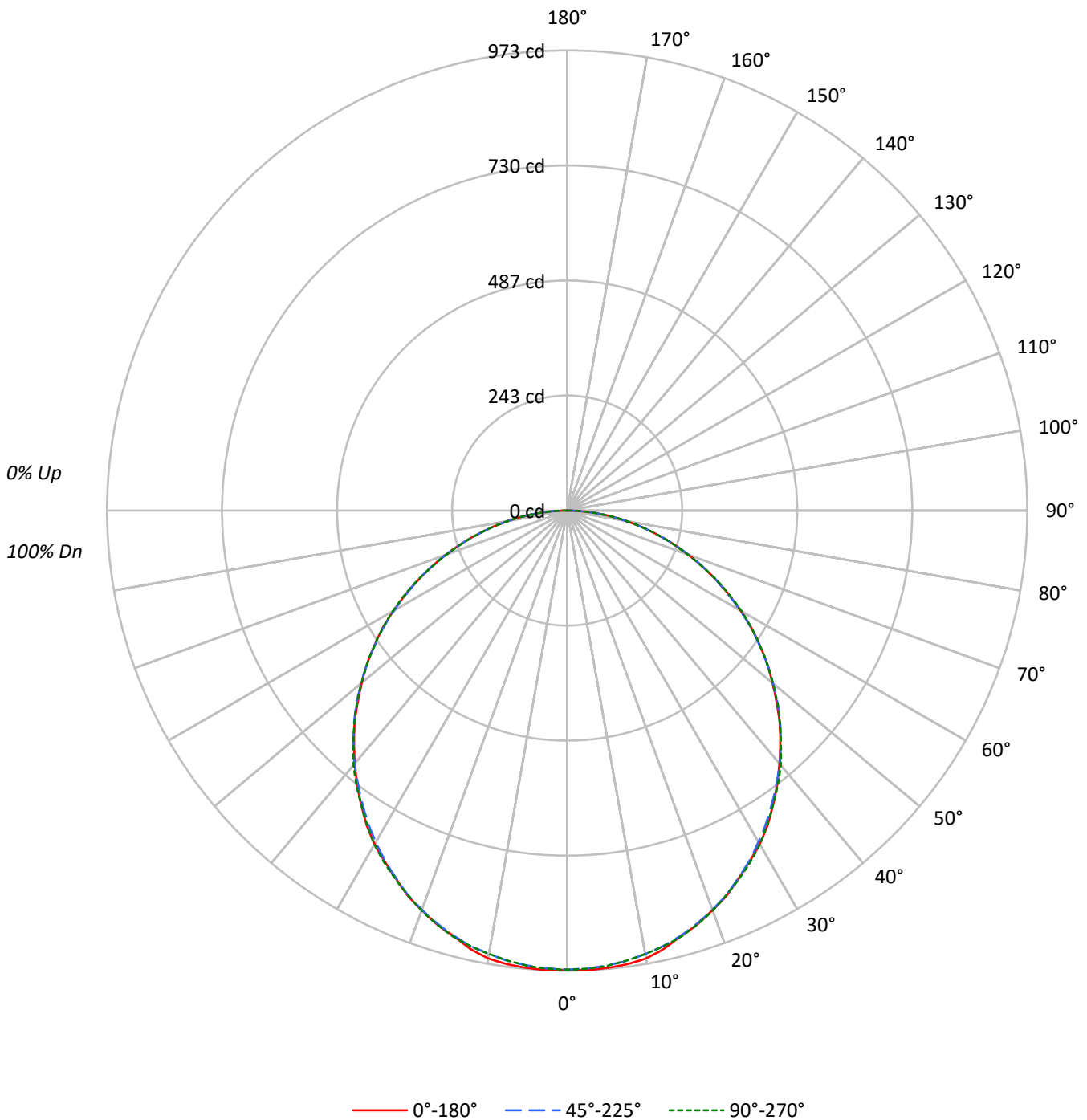
Input Watts (W): 20.925
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1306	1306	1306
5°	1311	1304	1305
10°	1314	1301	1301
15°	1297	1296	1299
20°	1287	1286	1289
25°	1273	1272	1276
30°	1265	1257	1266
35°	1247	1241	1247
40°	1227	1228	1235
45°	1209	1213	1211
50°	1186	1190	1188
55°	1168	1165	1168
60°	1141	1137	1148
65°	1105	1110	1114
70°	1070	1075	1067
75°	1032	1032	1032
80°	975	975	985
85°	900	911	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	3.3
10°-20°	262.5	9.4
20°-30°	395.5	14.2
30°-40°	473.7	17.1
40°-50°	490.4	17.7
50°-60°	444.6	16.0
60°-70°	344.7	12.4
70°-80°	209.6	7.5
80°-90°	65.2	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°	749.8	27.0
0°-40°	1223.5	44.0
0°-60°	2158.5	77.7
0°-90°	2778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	971	965	966	964	966	92
15°	931	932	930	927	932	263
25°	858	858	857	860	860	396
35°	759	754	755	759	759	475
45°	636	637	638	635	636	490
55°	498	495	497	499	498	445
65°	347	349	348	347	350	344
75°	198	198	198	198	198	210
85°	58	58	59	58	57	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.9	970.9	970.9	970.9	970.9
2.5°	972.9	969.0	969.0	967.7	969.6
5°	970.9	965.0	965.7	964.4	966.4
7.5°	967.7	959.8	960.5	959.2	959.8
10°	961.8	952.6	951.9	951.3	951.9
12.5°	948.7	943.4	942.8	941.5	943.4
15°	931.0	931.6	930.3	927.0	932.3
17.5°	917.2	916.6	915.3	912.0	917.2
20°	898.9	899.5	898.2	896.9	900.2
22.5°	881.2	879.2	879.9	879.2	879.9
25°	857.6	857.6	856.9	859.6	859.6
27.5°	836.0	833.4	834.7	837.3	838.6
30°	814.4	807.8	809.1	811.7	815.0
32.5°	788.8	782.3	783.6	786.2	787.5
35°	759.3	754.1	755.4	758.7	759.3
37.5°	729.2	725.9	727.2	729.8	731.8
40°	698.4	697.1	699.1	698.4	703.0
42.5°	666.9	666.3	668.3	668.3	668.9
45°	635.5	636.8	637.5	634.8	636.2
47.5°	600.8	601.4	604.1	602.7	603.4
50°	566.7	566.1	568.7	569.3	567.4
52.5°	534.0	530.7	533.3	534.6	533.3
55°	497.9	495.3	496.6	498.6	497.9
57.5°	462.5	459.9	460.6	463.9	462.5
60°	423.9	423.2	422.6	425.2	426.5
62.5°	385.9	385.2	383.9	386.5	387.9
65°	347.2	349.2	348.5	347.2	349.9
67.5°	310.5	312.5	310.5	309.2	309.2
70°	271.9	273.9	273.2	271.9	271.2
72.5°	235.9	235.9	234.5	233.9	234.5
75°	198.5	197.9	198.5	197.9	198.5
77.5°	161.8	162.5	162.5	162.5	161.8
80°	125.8	125.8	125.8	126.4	127.1
82.5°	92.4	90.4	92.4	91.1	91.7
85°	58.3	57.7	59.0	58.3	57.0
87.5°	26.2	26.9	26.9	27.5	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)