

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: P294342

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294342
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-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2274.0 lumens
Efficiency: N/A
Efficacy: 113.2 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

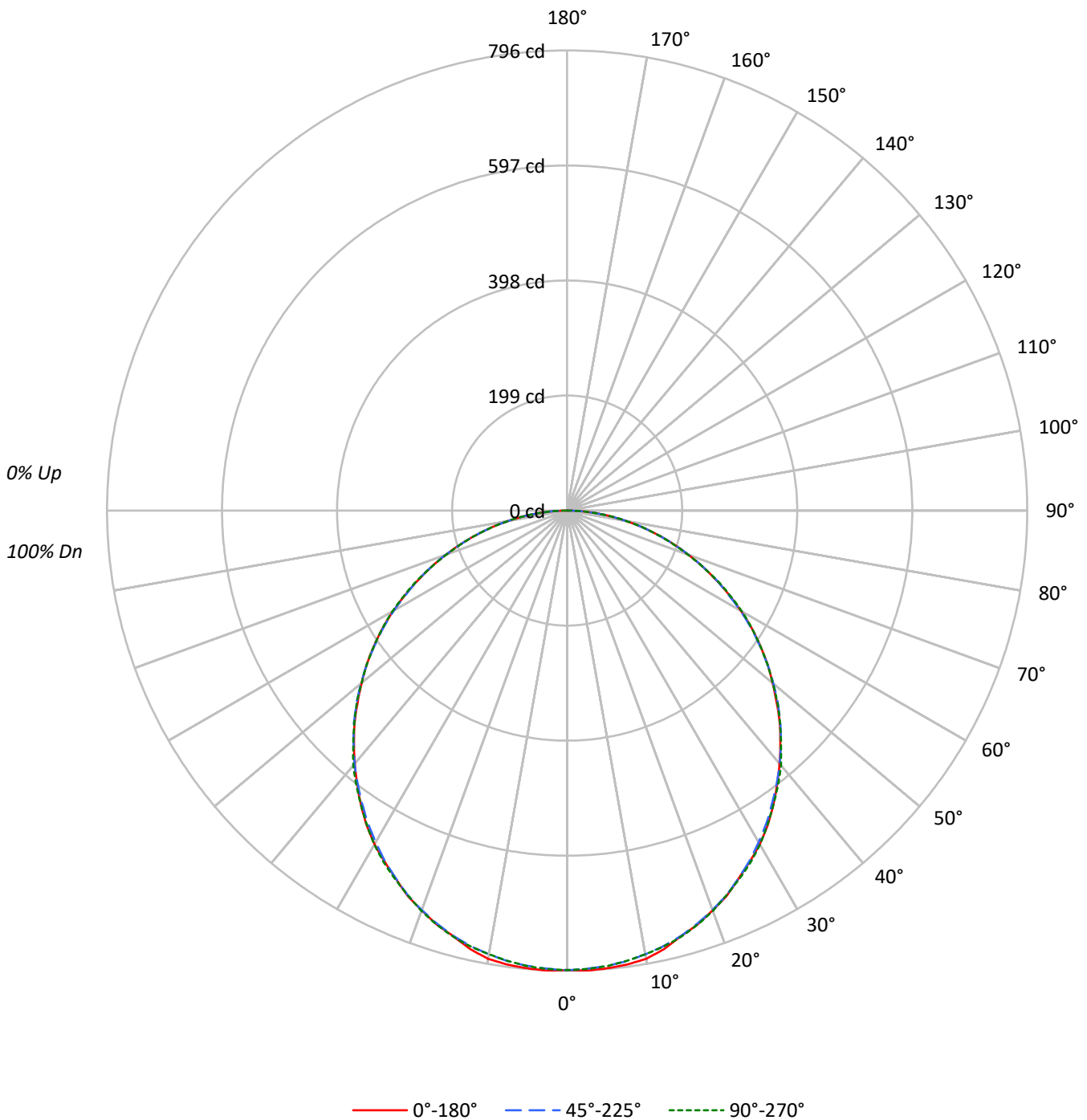
Input Watts (W): 20.088
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P294342

CATALOG NUMBER: 24GR-LD5-30-FGW080-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P294342

CATALOG NUMBER: 24GR-LD5-30-FGW080-UNV-L92765-W2A1-U-3500K

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°	1069	1069	1069
5°	1073	1068	1068
10°	1076	1065	1065
15°	1062	1061	1063
20°	1054	1053	1055
25°	1042	1041	1045
30°	1036	1029	1037
35°	1021	1016	1021
40°	1004	1005	1011
45°	990	993	991
50°	971	974	972
55°	956	954	956
60°	934	931	939
65°	905	908	912
70°	876	880	873
75°	845	845	845
80°	798	798	806
85°	736	746	721



TEST NUMBER: P294342

CATALOG NUMBER: 24GR-LD5-30-FGW080-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	3.3
10°-20°	214.8	9.4
20°-30°	323.8	14.2
30°-40°	387.8	17.1
40°-50°	401.4	17.7
50°-60°	363.9	16.0
60°-70°	282.2	12.4
70°-80°	171.6	7.5
80°-90°	53.4	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°	613.7	27.0
0°-40°	1001.5	44.0
0°-60°	1766.8	77.7
0°-90°	2274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	795	790	790	789	791	76
15°	762	763	762	759	763	215
25°	702	702	702	704	704	324
35°	622	617	618	621	622	389
45°	520	521	522	520	521	401
55°	408	405	406	408	408	364
65°	284	286	285	284	286	282
75°	162	162	162	162	162	172
85°	48	47	48	48	47	53
90°	0	0	0	0	0	



TEST NUMBER: P294342

CATALOG NUMBER: 24GR-LD5-30-FGW080-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	794.8	794.8	794.8	794.8	794.8
2.5°	796.4	793.2	793.2	792.1	793.7
5°	794.8	790.0	790.5	789.4	791.0
7.5°	792.1	785.7	786.2	785.1	785.7
10°	787.3	779.8	779.2	778.7	779.2
12.5°	776.6	772.3	771.7	770.7	772.3
15°	762.1	762.6	761.5	758.9	763.1
17.5°	750.8	750.3	749.2	746.5	750.8
20°	735.8	736.3	735.3	734.2	736.9
22.5°	721.3	719.7	720.2	719.7	720.2
25°	702.0	702.0	701.5	703.6	703.6
27.5°	684.3	682.2	683.2	685.4	686.5
30°	666.6	661.3	662.3	664.5	667.2
32.5°	645.7	640.3	641.4	643.6	644.6
35°	621.6	617.3	618.3	621.0	621.6
37.5°	596.9	594.2	595.3	597.4	599.0
40°	571.7	570.6	572.2	571.7	575.4
42.5°	545.9	545.4	547.0	547.0	547.6
45°	520.2	521.3	521.8	519.7	520.7
47.5°	491.8	492.3	494.5	493.4	493.9
50°	463.9	463.4	465.5	466.0	464.4
52.5°	437.1	434.4	436.5	437.6	436.5
55°	407.6	405.4	406.5	408.1	407.6
57.5°	378.6	376.5	377.0	379.7	378.6
60°	347.0	346.4	345.9	348.1	349.1
62.5°	315.9	315.3	314.3	316.4	317.5
65°	284.2	285.8	285.3	284.2	286.4
67.5°	254.2	255.8	254.2	253.1	253.1
70°	222.6	224.2	223.6	222.6	222.0
72.5°	193.1	193.1	192.0	191.5	192.0
75°	162.5	162.0	162.5	162.0	162.5
77.5°	132.5	133.0	133.0	133.0	132.5
80°	103.0	103.0	103.0	103.5	104.0
82.5°	75.6	74.0	75.6	74.5	75.1
85°	47.7	47.2	48.3	47.7	46.7
87.5°	21.5	22.0	22.0	22.5	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)