

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: P294341

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294341
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2166.0 lumens
Efficiency: N/A
Efficacy: 109.3 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

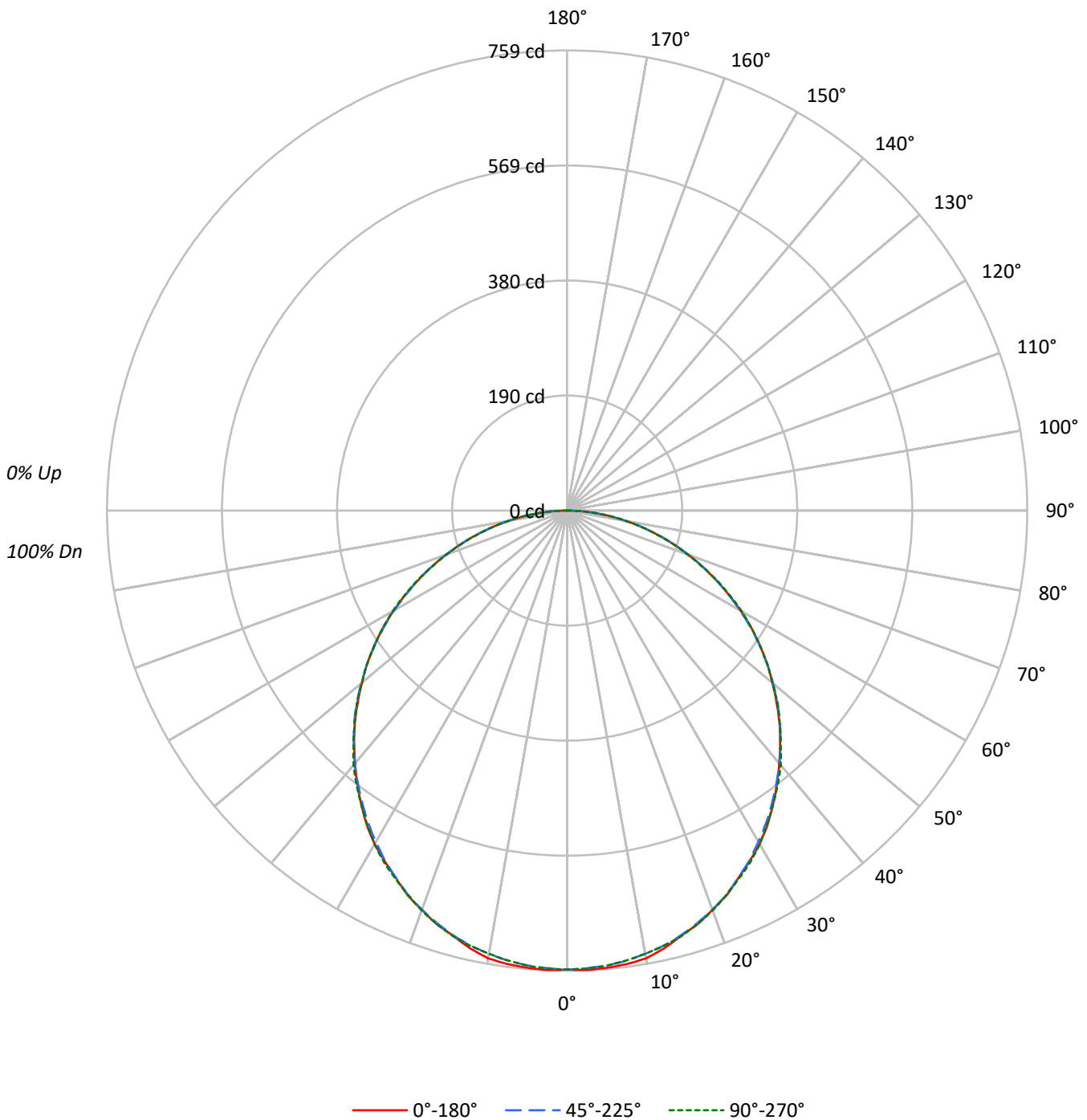
Input Watts (W): 19.809
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1019	1019	1019
5°	1022	1017	1018
10°	1025	1014	1014
15°	1011	1010	1013
20°	1004	1003	1005
25°	993	992	995
30°	987	980	987
35°	972	967	972
40°	956	957	963
45°	943	946	944
50°	925	928	926
55°	911	908	911
60°	889	887	895
65°	862	865	869
70°	834	838	832
75°	805	805	805
80°	760	760	768
85°	702	710	685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	3.3
10°-20°	204.6	9.4
20°-30°	308.4	14.2
30°-40°	369.3	17.1
40°-50°	382.3	17.7
50°-60°	346.7	16.0
60°-70°	268.8	12.4
70°-80°	163.5	7.5
80°-90°	50.9	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°	584.6	27.0
0°-40°	953.9	44.0
0°-60°	1682.9	77.7
0°-90°	2166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	757	757	757	757	757	
5°	757	752	753	752	754	72
15°	726	726	725	723	727	205
25°	669	669	668	670	670	309
35°	592	588	589	592	592	370
45°	496	496	497	495	496	382
55°	388	386	387	389	388	347
65°	271	272	272	271	273	268
75°	155	154	155	154	155	164
85°	46	45	46	46	44	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	757.0	757.0	757.0	757.0	757.0
2.5°	758.6	755.5	755.5	754.5	756.0
5°	757.0	752.4	753.0	751.9	753.5
7.5°	754.5	748.4	748.9	747.8	748.4
10°	749.9	742.7	742.2	741.7	742.2
12.5°	739.7	735.6	735.1	734.1	735.6
15°	725.9	726.4	725.4	722.8	726.9
17.5°	715.2	714.6	713.6	711.1	715.2
20°	700.9	701.4	700.3	699.3	701.9
22.5°	687.1	685.5	686.0	685.5	686.0
25°	668.7	668.7	668.2	670.2	670.2
27.5°	651.8	649.8	650.8	652.8	653.9
30°	635.0	629.8	630.9	632.9	635.5
32.5°	615.0	609.9	610.9	613.0	614.0
35°	592.0	588.0	589.0	591.5	592.0
37.5°	568.5	566.0	567.0	569.1	570.6
40°	544.5	543.5	545.0	544.5	548.1
42.5°	520.0	519.5	521.0	521.0	521.6
45°	495.5	496.5	497.0	495.0	496.0
47.5°	468.4	468.9	471.0	470.0	470.5
50°	441.9	441.4	443.4	443.9	442.4
52.5°	416.3	413.8	415.8	416.8	415.8
55°	388.2	386.2	387.2	388.7	388.2
57.5°	360.6	358.6	359.1	361.7	360.6
60°	330.5	330.0	329.5	331.5	332.5
62.5°	300.9	300.4	299.3	301.4	302.4
65°	270.7	272.3	271.8	270.7	272.8
67.5°	242.1	243.7	242.1	241.1	241.1
70°	212.0	213.5	213.0	212.0	211.5
72.5°	183.9	183.9	182.9	182.4	182.9
75°	154.8	154.3	154.8	154.3	154.8
77.5°	126.2	126.7	126.7	126.7	126.2
80°	98.1	98.1	98.1	98.6	99.1
82.5°	72.0	70.5	72.0	71.0	71.5
85°	45.5	45.0	46.0	45.5	44.4
87.5°	20.4	20.9	20.9	21.5	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)