

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: P292223

Luminaire Tested: **22GR-LD5-20-A-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-A-UNV-L93050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1612.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

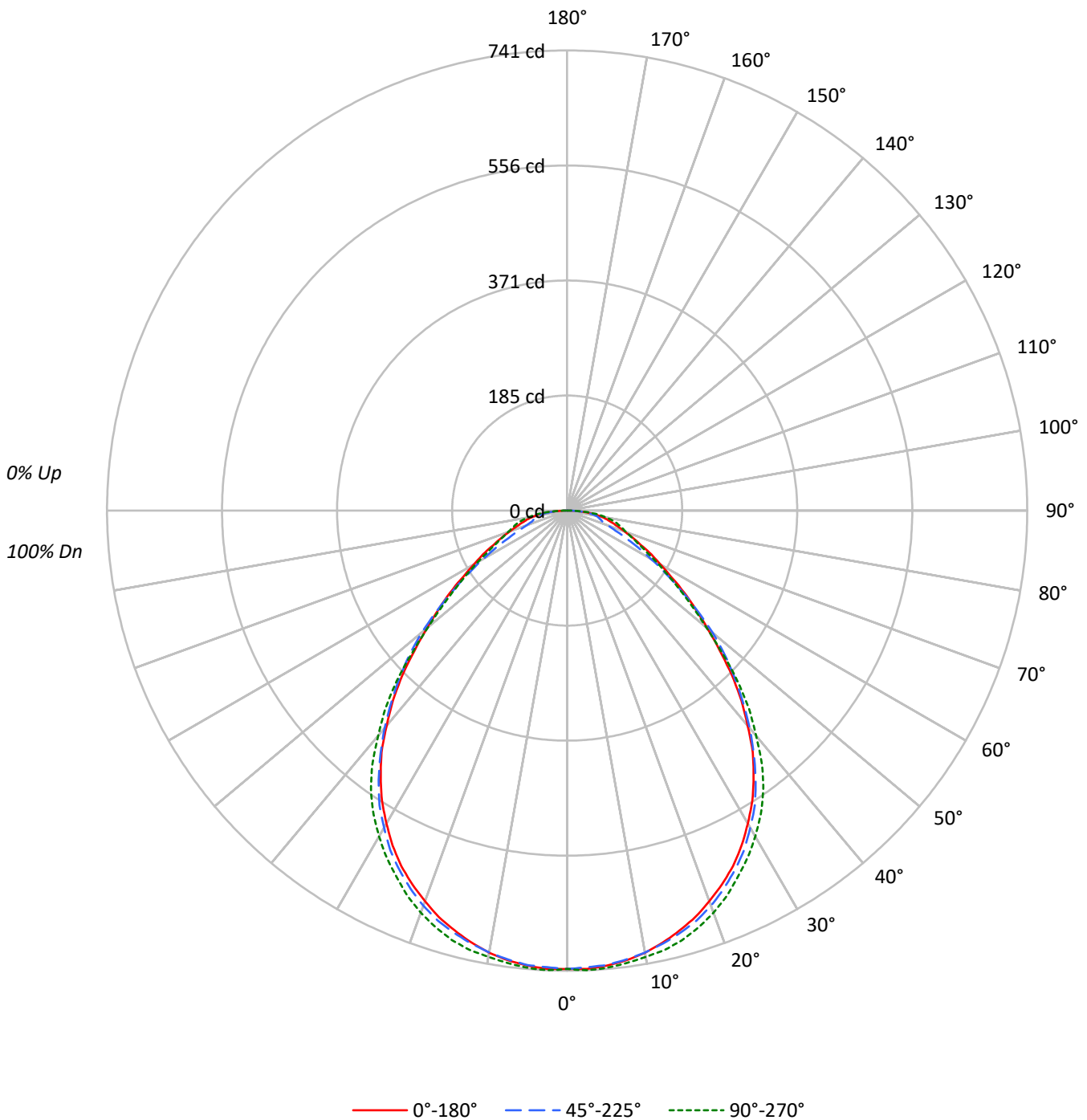
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1986	1986	1986
5°	1987	1984	1996
10°	1975	1974	1994
15°	1950	1960	1995
20°	1916	1939	1973
25°	1876	1897	1931
30°	1808	1832	1882
35°	1719	1739	1809
40°	1589	1606	1663
45°	1427	1453	1476
50°	1234	1278	1222
55°	1077	1049	1035
60°	933	840	897
65°	833	659	805
70°	773	546	794
75°	773	577	882
80°	854	727	993
85°	892	787	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	4.3
10°-20°	199.0	12.3
20°-30°	294.3	18.3
30°-40°	332.1	20.6
40°-50°	292.7	18.2
50°-60°	200.8	12.5
60°-70°	118.5	7.4
70°-80°	74.0	4.6
80°-90°	30.8	1.9
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°	563.1	34.9
0°-40°	895.2	55.5
0°-60°	1388.7	86.1
0°-90°	1612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	738	738	738	738	738	
5°	736	734	734	737	739	70
15°	700	701	704	712	716	197
25°	632	634	639	647	650	290
35°	523	528	529	542	551	326
45°	375	377	382	384	388	288
55°	230	224	224	216	221	206
65°	131	115	104	120	126	132
75°	74	67	56	78	85	80
85°	29	27	26	33	36	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	738.2	738.2	738.2	738.2	738.2
2.5°	738.6	736.7	736.0	739.0	740.9
5°	735.6	734.1	734.5	737.1	739.0
7.5°	730.4	729.2	729.2	733.0	734.9
10°	722.9	722.5	722.5	727.0	729.6
12.5°	712.4	712.7	714.2	720.2	724.7
15°	700.0	700.7	703.7	712.4	716.1
17.5°	686.5	686.5	692.5	699.2	703.7
20°	669.2	670.3	677.1	684.6	689.1
22.5°	651.6	653.5	659.1	667.7	671.8
25°	631.7	634.0	638.8	647.1	650.5
27.5°	608.4	611.4	616.7	622.7	629.8
30°	581.8	586.3	589.7	597.9	605.8
32.5°	554.8	558.9	562.7	571.3	580.3
35°	523.3	527.8	529.3	542.0	550.7
37.5°	491.0	492.9	493.7	506.4	515.8
40°	452.4	456.1	457.3	467.4	473.4
42.5°	415.3	416.8	419.0	426.5	433.6
45°	375.1	377.0	381.9	384.1	387.9
47.5°	333.1	338.7	344.4	337.2	337.6
50°	294.8	299.3	305.3	291.8	291.8
52.5°	260.7	263.0	263.3	252.1	254.3
55°	229.6	223.9	223.6	216.1	220.6
57.5°	198.4	190.9	188.3	186.1	191.3
60°	173.3	159.8	156.1	159.4	166.6
62.5°	152.7	135.4	128.3	136.9	143.3
65°	130.9	115.2	103.5	119.7	126.4
67.5°	114.0	99.0	84.0	106.9	111.8
70°	98.3	86.7	69.4	97.2	100.9
72.5°	85.5	76.5	60.0	87.8	92.3
75°	74.3	66.8	55.5	77.7	84.8
77.5°	65.3	57.0	51.8	67.1	75.8
80°	55.1	46.9	46.9	56.3	64.1
82.5°	43.5	36.8	37.9	45.8	51.4
85°	28.9	27.0	25.5	33.4	36.4
87.5°	14.6	15.0	13.5	17.3	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)