

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: P292168

Luminaire Tested: **22GR-LD5-20-A-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292168
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-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2167.0 lumens
Efficiency: N/A
Efficacy: 134.7 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

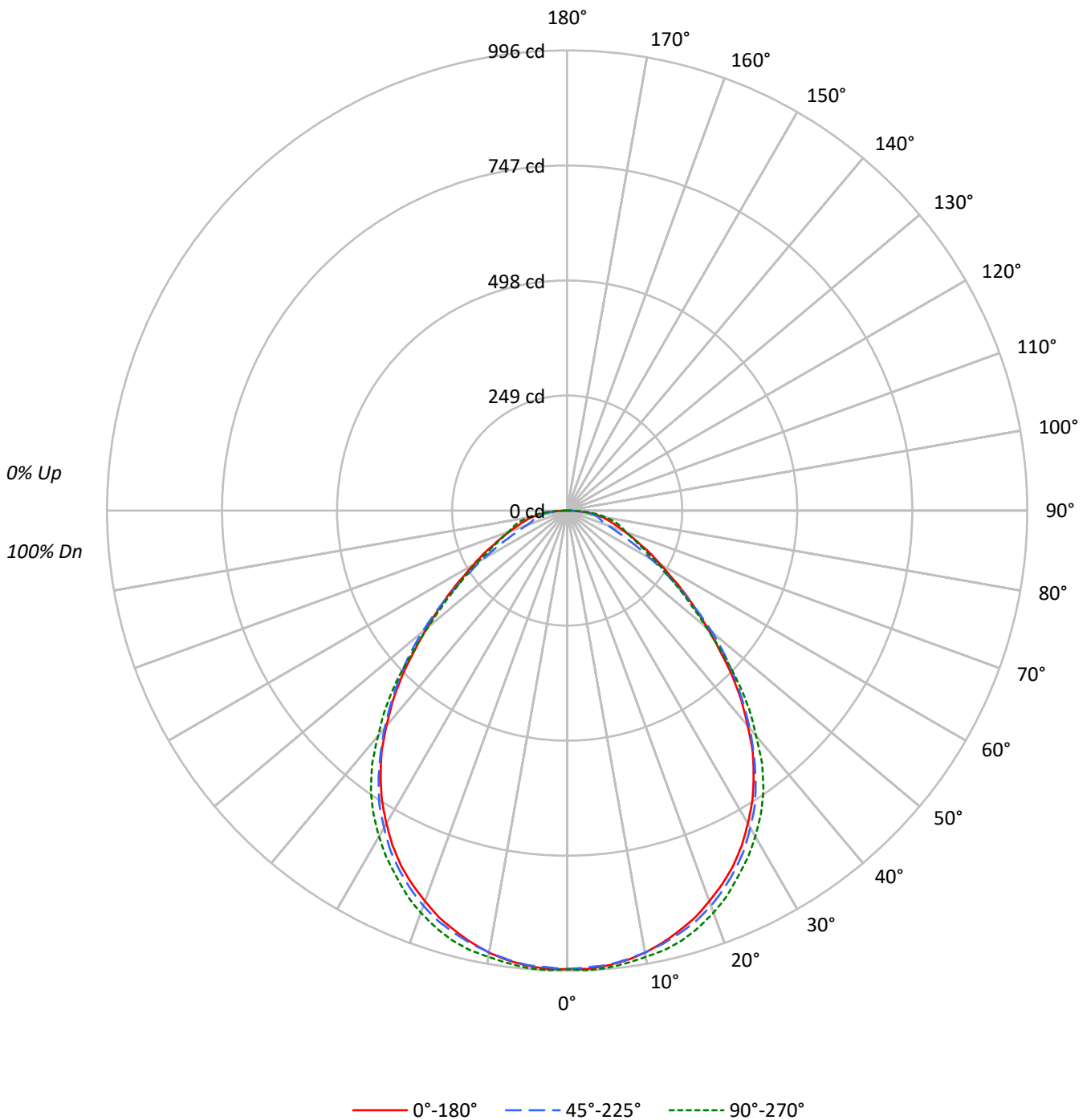
Input Watts (W): 16.089
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2671	2671	2671
5°	2671	2667	2683
10°	2655	2654	2680
15°	2622	2635	2682
20°	2576	2607	2653
25°	2521	2550	2596
30°	2430	2463	2531
35°	2311	2337	2432
40°	2136	2159	2236
45°	1919	1953	1984
50°	1659	1719	1642
55°	1448	1410	1391
60°	1254	1129	1205
65°	1121	886	1082
70°	1039	734	1067
75°	1038	776	1185
80°	1148	976	1336
85°	1198	1059	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	4.3
10°-20°	267.5	12.3
20°-30°	395.6	18.3
30°-40°	446.4	20.6
40°-50°	393.5	18.2
50°-60°	270.0	12.5
60°-70°	159.3	7.4
70°-80°	99.4	4.6
80°-90°	41.4	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°	757.0	34.9
0°-40°	1203.4	55.5
0°-60°	1866.9	86.1
0°-90°	2167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2167.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	989	987	987	991	993	94
15°	941	942	946	958	963	265
25°	849	852	859	870	874	390
35°	704	710	712	729	740	438
45°	504	507	513	516	521	387
55°	309	301	300	290	296	277
65°	176	155	139	161	170	177
75°	100	90	75	104	114	107
85°	39	36	34	45	49	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	992.4	992.4	992.4	992.4	992.4
2.5°	992.9	990.4	989.4	993.4	995.9
5°	988.9	986.9	987.4	990.9	993.4
7.5°	981.8	980.3	980.3	985.3	987.9
10°	971.7	971.2	971.2	977.3	980.8
12.5°	957.6	958.1	960.1	968.2	974.3
15°	941.0	942.0	946.0	957.6	962.7
17.5°	922.8	922.8	930.9	940.0	946.0
20°	899.6	901.1	910.2	920.3	926.3
22.5°	875.9	878.4	886.0	897.6	903.2
25°	849.2	852.2	858.8	869.9	874.4
27.5°	817.9	822.0	829.0	837.1	846.7
30°	782.1	788.2	792.7	803.8	814.4
32.5°	745.8	751.4	756.4	768.0	780.1
35°	703.5	709.5	711.5	728.7	740.3
37.5°	660.1	662.6	663.6	680.8	693.4
40°	608.2	613.2	614.7	628.3	636.4
42.5°	558.2	560.2	563.3	573.4	582.9
45°	504.3	506.8	513.3	516.4	521.4
47.5°	447.8	455.4	462.9	453.3	453.8
50°	396.4	402.4	410.5	392.3	392.3
52.5°	350.5	353.5	354.0	338.9	341.9
55°	308.6	301.1	300.5	290.5	296.5
57.5°	266.8	256.7	253.1	250.1	257.2
60°	233.0	214.8	209.8	214.3	223.9
62.5°	205.2	182.0	172.5	184.1	192.6
65°	176.0	154.8	139.2	160.9	169.9
67.5°	153.3	133.1	113.0	143.7	150.3
70°	132.1	116.5	93.3	130.6	135.6
72.5°	115.0	102.9	80.7	118.0	124.1
75°	99.8	89.8	74.6	104.4	114.0
77.5°	87.7	76.6	69.6	90.3	101.9
80°	74.1	63.0	63.0	75.6	86.2
82.5°	58.5	49.4	50.9	61.5	69.1
85°	38.8	36.3	34.3	44.9	48.9
87.5°	19.7	20.2	18.2	23.2	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)