

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: P292276

Luminaire Tested: **22GR-LD5-28-A-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292276
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-LD5-28-A-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2280.0 lumens
Efficiency: N/A
Efficacy: 103.9 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

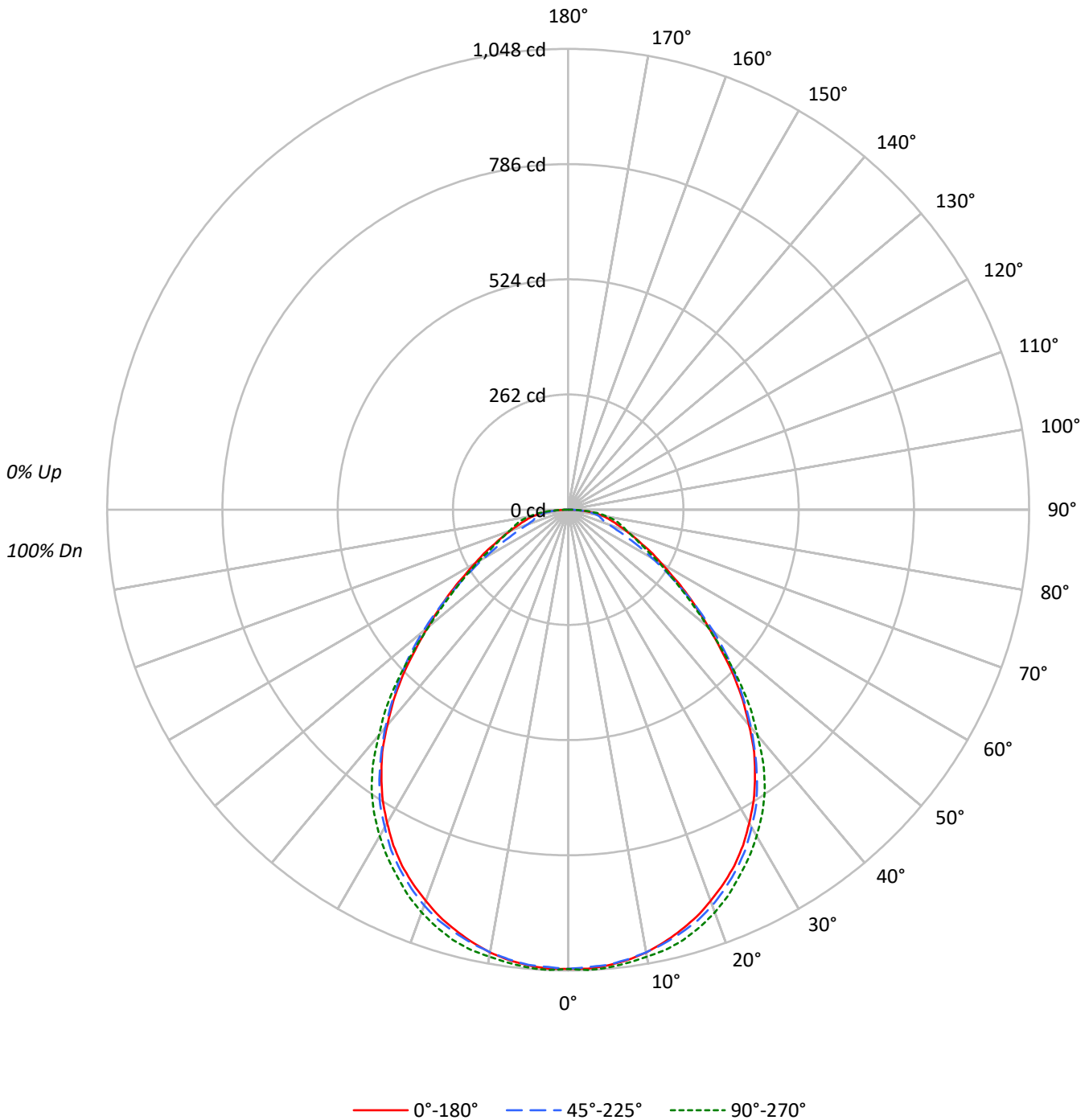
Input Watts (W): 21.948
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2810	2810	2810
5°	2810	2806	2823
10°	2794	2792	2820
15°	2758	2773	2822
20°	2710	2743	2791
25°	2653	2683	2732
30°	2557	2592	2663
35°	2431	2459	2559
40°	2248	2272	2352
45°	2019	2055	2088
50°	1746	1808	1728
55°	1523	1483	1464
60°	1319	1188	1268
65°	1179	932	1138
70°	1094	773	1123
75°	1093	816	1247
80°	1209	1027	1406
85°	1263	1115	1590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	4.3
10°-20°	281.4	12.3
20°-30°	416.2	18.3
30°-40°	469.7	20.6
40°-50°	414.0	18.2
50°-60°	284.0	12.5
60°-70°	167.6	7.4
70°-80°	104.6	4.6
80°-90°	43.6	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°	796.4	34.9
0°-40°	1266.1	55.5
0°-60°	1964.2	86.1
0°-90°	2280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1040	1038	1039	1043	1045	99
15°	990	991	995	1008	1013	279
25°	894	897	904	915	920	410
35°	740	746	749	767	779	461
45°	531	533	540	543	549	408
55°	325	317	316	306	312	291
65°	185	163	146	169	179	187
75°	105	94	78	110	120	113
85°	41	38	36	47	52	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1044.2	1044.2	1044.2	1044.2	1044.2
2.5°	1044.7	1042.0	1041.0	1045.2	1047.9
5°	1040.4	1038.3	1038.9	1042.6	1045.2
7.5°	1033.0	1031.4	1031.4	1036.7	1039.4
10°	1022.4	1021.9	1021.9	1028.2	1032.0
12.5°	1007.5	1008.1	1010.2	1018.7	1025.1
15°	990.0	991.1	995.3	1007.5	1012.9
17.5°	970.9	970.9	979.4	989.0	995.3
20°	946.5	948.1	957.7	968.3	974.7
22.5°	921.6	924.2	932.2	944.4	950.2
25°	893.5	896.7	903.6	915.2	920.0
27.5°	860.6	864.8	872.3	880.7	890.8
30°	822.9	829.3	834.1	845.7	856.9
32.5°	784.7	790.5	795.9	808.1	820.8
35°	740.1	746.5	748.6	766.7	778.9
37.5°	694.5	697.2	698.2	716.3	729.5
40°	639.9	645.2	646.8	661.1	669.6
42.5°	587.3	589.5	592.6	603.3	613.3
45°	530.6	533.2	540.1	543.3	548.6
47.5°	471.1	479.1	487.1	477.0	477.5
50°	417.0	423.4	431.9	412.8	412.8
52.5°	368.7	371.9	372.5	356.5	359.7
55°	324.7	316.7	316.2	305.6	312.0
57.5°	280.7	270.1	266.3	263.2	270.6
60°	245.1	226.0	220.7	225.5	235.6
62.5°	215.9	191.5	181.5	193.7	202.7
65°	185.2	162.9	146.4	169.3	178.8
67.5°	161.3	140.1	118.8	151.2	158.1
70°	139.0	122.6	98.2	137.4	142.7
72.5°	121.0	108.2	84.9	124.2	130.5
75°	105.1	94.4	78.5	109.8	119.9
77.5°	92.3	80.6	73.2	95.0	107.2
80°	78.0	66.3	66.3	79.6	90.7
82.5°	61.5	52.0	53.6	64.7	72.7
85°	40.9	38.2	36.1	47.2	51.5
87.5°	20.7	21.2	19.1	24.4	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)