

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: P292170

Luminaire Tested: **22GR-LD5-24-A-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292170
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-LD5-24-A-UNV-L82765-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2297.0 lumens
Efficiency: N/A
Efficacy: 127.3 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

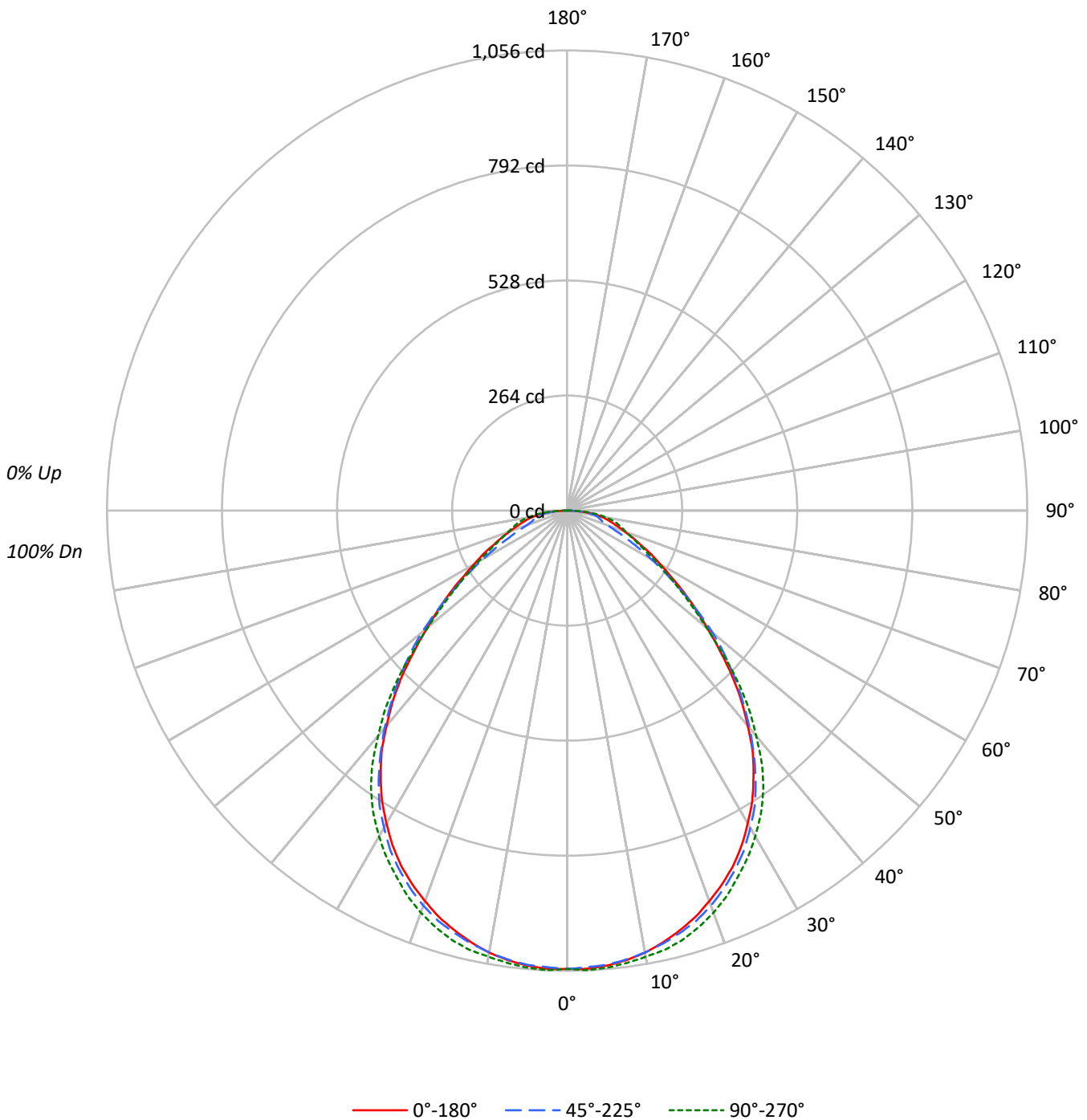
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2831	2831	2831
5°	2831	2827	2844
10°	2814	2813	2841
15°	2779	2794	2843
20°	2731	2763	2812
25°	2673	2703	2752
30°	2576	2611	2683
35°	2450	2478	2578
40°	2264	2289	2370
45°	2034	2071	2103
50°	1759	1822	1741
55°	1535	1495	1475
60°	1329	1197	1277
65°	1188	939	1147
70°	1102	778	1131
75°	1100	822	1256
80°	1218	1035	1416
85°	1272	1121	1599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	4.3
10°-20°	283.5	12.3
20°-30°	419.3	18.3
30°-40°	473.2	20.6
40°-50°	417.1	18.2
50°-60°	286.2	12.5
60°-70°	168.8	7.4
70°-80°	105.4	4.6
80°-90°	43.9	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°	802.4	34.9
0°-40°	1275.6	55.5
0°-60°	1978.9	86.1
0°-90°	2297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2297.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1048	1046	1047	1050	1053	99
15°	997	998	1003	1015	1020	281
25°	900	903	910	922	927	413
35°	746	752	754	772	785	465
45°	534	537	544	547	553	411
55°	327	319	319	308	314	293
65°	186	164	148	170	180	188
75°	106	95	79	111	121	113
85°	41	38	36	48	52	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1051.9	1051.9	1051.9	1051.9	1051.9
2.5°	1052.5	1049.8	1048.7	1053.0	1055.7
5°	1048.2	1046.1	1046.6	1050.3	1053.0
7.5°	1040.7	1039.1	1039.1	1044.5	1047.1
10°	1030.0	1029.5	1029.5	1035.9	1039.6
12.5°	1015.1	1015.6	1017.7	1026.3	1032.7
15°	997.4	998.5	1002.8	1015.1	1020.4
17.5°	978.2	978.2	986.7	996.4	1002.8
20°	953.6	955.2	964.8	975.5	981.9
22.5°	928.5	931.1	939.2	951.5	957.3
25°	900.1	903.3	910.3	922.1	926.9
27.5°	867.0	871.3	878.8	887.3	897.5
30°	829.0	835.5	840.3	852.0	863.3
32.5°	790.6	796.4	801.8	814.1	826.9
35°	745.7	752.1	754.2	772.4	784.7
37.5°	699.7	702.4	703.4	721.6	735.0
40°	644.6	650.0	651.6	666.0	674.6
42.5°	591.7	593.9	597.1	607.8	617.9
45°	534.5	537.2	544.1	547.4	552.7
47.5°	474.7	482.7	490.7	480.5	481.1
50°	420.1	426.6	435.1	415.9	415.9
52.5°	371.5	374.7	375.2	359.2	362.4
55°	327.1	319.1	318.6	307.9	314.3
57.5°	282.8	272.1	268.3	265.1	272.6
60°	247.0	227.7	222.4	227.2	237.3
62.5°	217.6	193.0	182.8	195.1	204.2
65°	186.5	164.1	147.5	170.5	180.1
67.5°	162.5	141.1	119.7	152.3	159.3
70°	140.0	123.5	98.9	138.4	143.8
72.5°	121.9	109.0	85.5	125.1	131.5
75°	105.8	95.1	79.1	110.6	120.8
77.5°	93.0	81.2	73.8	95.7	108.0
80°	78.6	66.8	66.8	80.2	91.4
82.5°	62.0	52.4	54.0	65.2	73.2
85°	41.2	38.5	36.3	47.6	51.8
87.5°	20.8	21.4	19.2	24.6	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)