

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: P292267

Luminaire Tested: **22GR-LD5-24-A-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292267
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-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: 1906.0 lumens
Efficiency: N/A
Efficacy: 105.1 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

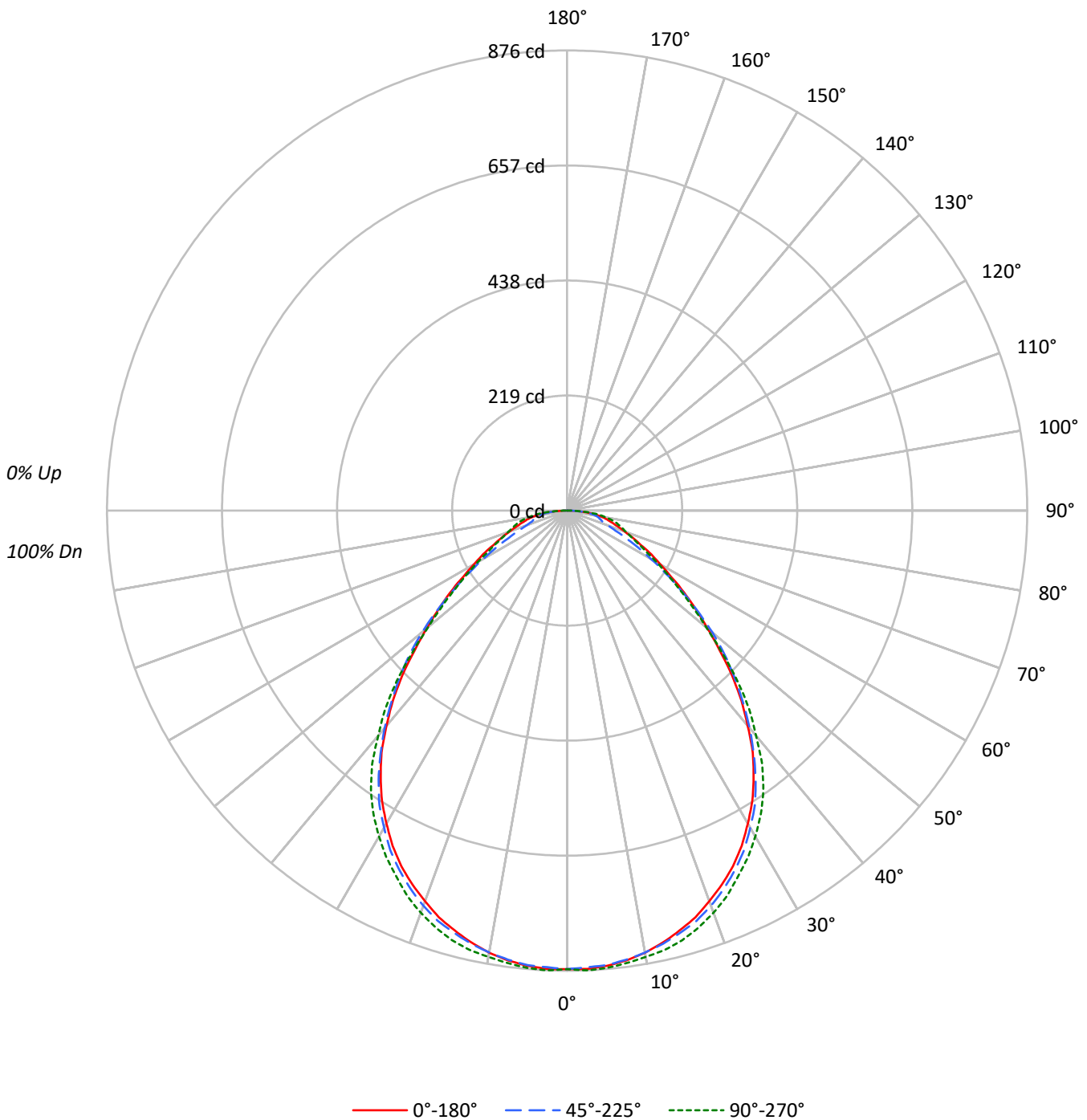
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2349	2349	2349
5°	2350	2346	2360
10°	2335	2334	2357
15°	2306	2318	2359
20°	2266	2293	2333
25°	2218	2243	2284
30°	2137	2166	2226
35°	2032	2056	2139
40°	1879	1899	1966
45°	1688	1718	1745
50°	1459	1511	1445
55°	1273	1240	1224
60°	1103	993	1060
65°	986	779	952
70°	914	646	939
75°	913	682	1042
80°	1010	859	1175
85°	1056	932	1328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	4.3
10°-20°	235.3	12.3
20°-30°	347.9	18.3
30°-40°	392.6	20.6
40°-50°	346.1	18.2
50°-60°	237.4	12.5
60°-70°	140.1	7.4
70°-80°	87.4	4.6
80°-90°	36.5	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°	665.8	34.9
0°-40°	1058.4	55.5
0°-60°	1642.0	86.1
0°-90°	1906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	870	868	868	872	874	83
15°	828	828	832	842	847	233
25°	747	750	755	765	769	343
35°	619	624	626	641	651	386
45°	444	446	452	454	459	341
55°	271	265	264	256	261	243
65°	155	136	122	142	150	156
75°	88	79	66	92	100	94
85°	34	32	30	40	43	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	872.9	872.9	872.9	872.9	872.9
2.5°	873.3	871.1	870.2	873.8	876.0
5°	869.8	868.0	868.4	871.5	873.8
7.5°	863.6	862.2	862.2	866.7	868.9
10°	854.7	854.3	854.3	859.6	862.7
12.5°	842.3	842.7	844.5	851.6	856.9
15°	827.6	828.5	832.1	842.3	846.7
17.5°	811.7	811.7	818.8	826.8	832.1
20°	791.3	792.6	800.6	809.5	814.8
22.5°	770.4	772.6	779.3	789.5	794.4
25°	746.9	749.6	755.3	765.1	769.1
27.5°	719.4	723.0	729.2	736.3	744.7
30°	687.9	693.2	697.2	707.0	716.3
32.5°	656.0	660.9	665.3	675.5	686.2
35°	618.7	624.1	625.8	640.9	651.1
37.5°	580.6	582.8	583.7	598.8	609.9
40°	534.9	539.3	540.7	552.6	559.7
42.5°	491.0	492.8	495.4	504.3	512.7
45°	443.5	445.8	451.5	454.2	458.6
47.5°	393.9	400.5	407.2	398.7	399.2
50°	348.6	353.9	361.0	345.1	345.1
52.5°	308.3	310.9	311.4	298.1	300.7
55°	271.4	264.8	264.3	255.5	260.8
57.5°	234.6	225.8	222.7	220.0	226.2
60°	204.9	188.9	184.5	188.5	196.9
62.5°	180.5	160.1	151.7	161.9	169.4
65°	154.8	136.2	122.4	141.5	149.5
67.5°	134.8	117.1	99.4	126.4	132.2
70°	116.2	102.5	82.1	114.9	119.3
72.5°	101.1	90.5	71.0	103.8	109.1
75°	87.8	78.9	65.6	91.8	100.2
77.5°	77.2	67.4	61.2	79.4	89.6
80°	65.2	55.4	55.4	66.5	75.8
82.5°	51.5	43.5	44.8	54.1	60.8
85°	34.2	31.9	30.2	39.5	43.0
87.5°	17.3	17.7	16.0	20.4	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)