

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: P292271

Luminaire Tested: **22GR-LD5-24-A-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292271
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-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2204.0 lumens
Efficiency: N/A
Efficacy: 119.1 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

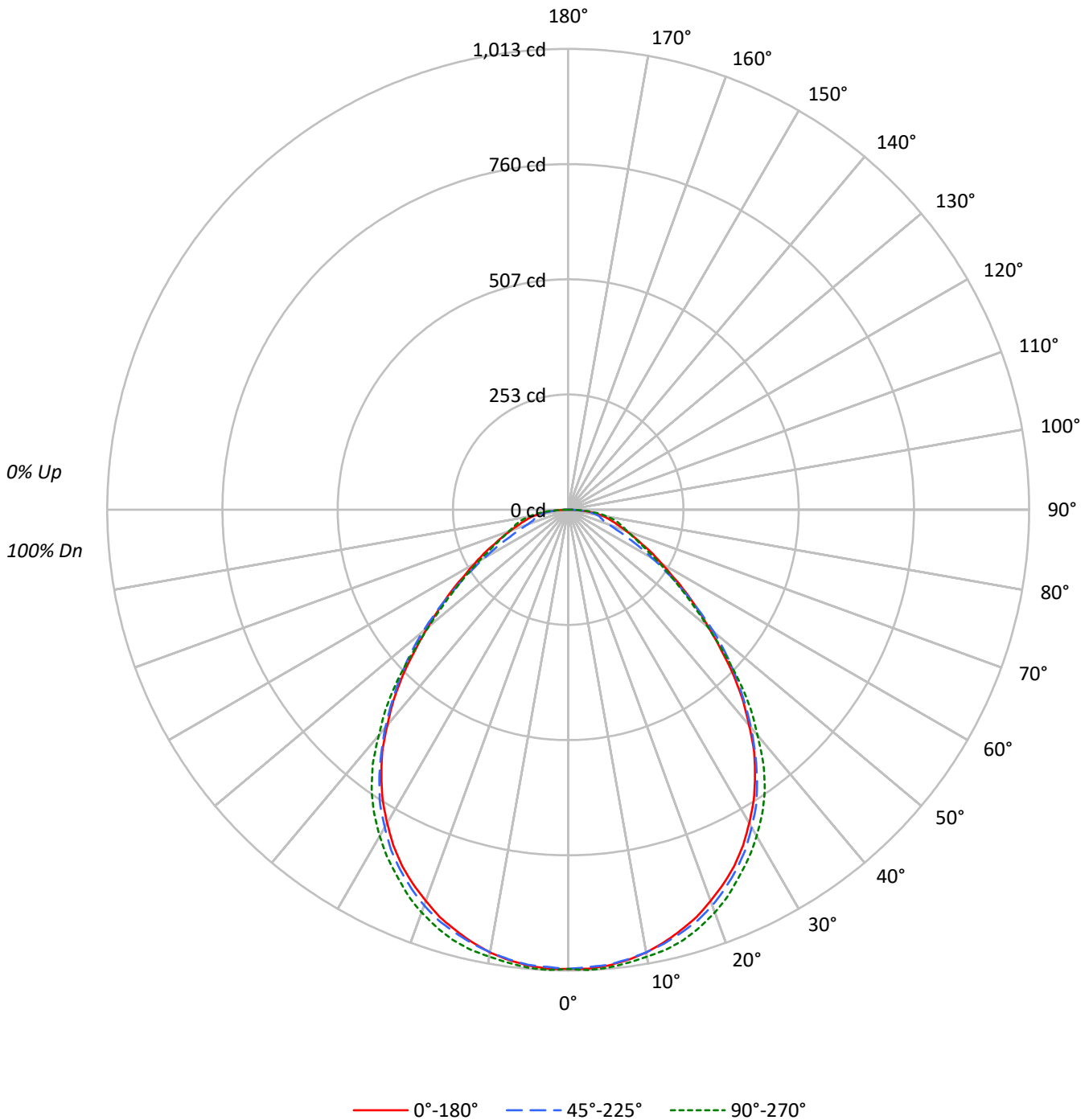
Input Watts (W): 18.507
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2716	2716	2716
5°	2717	2713	2729
10°	2701	2699	2726
15°	2666	2681	2728
20°	2620	2651	2698
25°	2564	2593	2640
30°	2472	2505	2574
35°	2350	2377	2473
40°	2173	2196	2274
45°	1952	1987	2018
50°	1688	1748	1670
55°	1473	1434	1415
60°	1276	1149	1225
65°	1140	902	1100
70°	1057	747	1086
75°	1056	789	1205
80°	1168	993	1359
85°	1220	1078	1535



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	4.3
10°-20°	272.0	12.3
20°-30°	402.3	18.3
30°-40°	454.0	20.6
40°-50°	400.2	18.2
50°-60°	274.6	12.5
60°-70°	162.0	7.4
70°-80°	101.1	4.6
80°-90°	42.2	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°	769.9	34.9
0°-40°	1223.9	55.5
0°-60°	1898.7	86.1
0°-90°	2204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2204.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1009	1009	1009	1009	1009	
5°	1006	1004	1004	1008	1010	95
15°	957	958	962	974	979	270
25°	864	867	873	885	889	397
35°	716	722	724	741	753	446
45°	513	515	522	525	530	394
55°	314	306	306	295	302	282
65°	179	158	142	164	173	180
75°	102	91	76	106	116	109
85°	40	37	35	46	50	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1009.4	1009.4	1009.4	1009.4	1009.4
2.5°	1009.9	1007.3	1006.3	1010.4	1012.9
5°	1005.8	1003.7	1004.2	1007.8	1010.4
7.5°	998.6	997.0	997.0	1002.2	1004.7
10°	988.3	987.8	987.8	994.0	997.6
12.5°	974.0	974.5	976.5	984.7	990.9
15°	957.0	958.1	962.2	974.0	979.1
17.5°	938.6	938.6	946.8	956.0	962.2
20°	915.0	916.5	925.8	936.0	942.2
22.5°	890.9	893.4	901.1	912.9	918.6
25°	863.7	866.8	873.4	884.7	889.3
27.5°	831.9	836.0	843.2	851.4	861.1
30°	795.5	801.6	806.3	817.5	828.3
32.5°	758.6	764.2	769.3	781.1	793.4
35°	715.5	721.6	723.7	741.1	752.9
37.5°	671.4	673.9	675.0	692.4	705.2
40°	618.5	623.7	625.2	639.1	647.3
42.5°	567.8	569.8	572.9	583.1	592.9
45°	512.9	515.4	522.1	525.2	530.3
47.5°	455.4	463.1	470.8	461.1	461.6
50°	403.1	409.3	417.5	399.0	399.0
52.5°	356.5	359.5	360.0	344.7	347.7
55°	313.9	306.2	305.7	295.4	301.6
57.5°	271.3	261.1	257.5	254.4	261.6
60°	237.0	218.5	213.4	218.0	227.7
62.5°	208.7	185.2	175.4	187.2	195.9
65°	179.0	157.5	141.6	163.6	172.8
67.5°	155.9	135.4	114.9	146.2	152.8
70°	134.4	118.5	94.9	132.8	138.0
72.5°	116.9	104.6	82.1	120.0	126.2
75°	101.6	91.3	75.9	106.2	115.9
77.5°	89.2	78.0	70.8	91.8	103.6
80°	75.4	64.1	64.1	76.9	87.7
82.5°	59.5	50.3	51.8	62.6	70.3
85°	39.5	36.9	34.9	45.6	49.7
87.5°	20.0	20.5	18.5	23.6	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)