

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: P292426

Luminaire Tested: **22GR-LD5-24-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-A125-UNV-L93050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2229.0 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

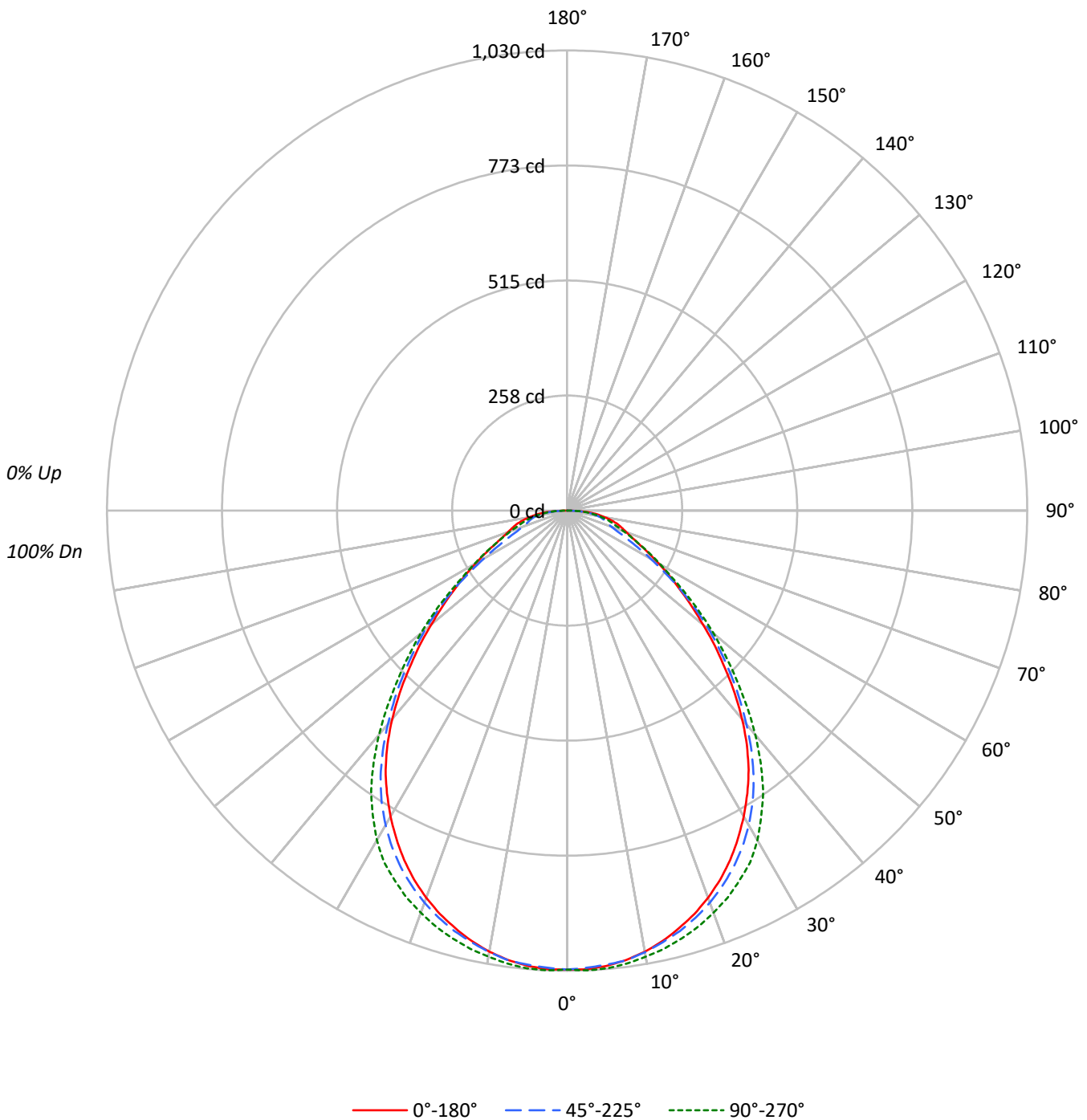
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	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	52	46	41	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	34	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	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2765	2765	2765
5°	2763	2756	2778
10°	2739	2742	2770
15°	2696	2715	2761
20°	2640	2674	2743
25°	2563	2616	2711
30°	2456	2526	2647
35°	2327	2392	2513
40°	2140	2193	2302
45°	1901	1970	2041
50°	1660	1736	1788
55°	1444	1463	1517
60°	1270	1164	1295
65°	1128	930	1135
70°	1108	826	1046
75°	1210	908	1070
80°	1330	1079	1144
85°	1590	1250	1284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	4.4
10°-20°	275.4	12.4
20°-30°	406.5	18.2
30°-40°	454.9	20.4
40°-50°	399.5	17.9
50°-60°	282.7	12.7
60°-70°	164.5	7.4
70°-80°	102.5	4.6
80°-90°	45.9	2.1
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°	779.0	34.9
0°-40°	1233.9	55.4
0°-60°	1916.1	86.0
0°-90°	2229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2229.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1028	1028	1028	1028	1028	
5°	1023	1020	1020	1025	1028	97
15°	968	970	974	985	991	273
25°	863	867	881	902	913	396
35°	708	712	728	750	765	441
45°	499	505	518	530	536	386
55°	308	314	312	318	323	278
65°	177	163	146	159	178	180
75°	116	100	87	89	103	122
85°	52	54	40	40	42	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1027.5	1027.5	1027.5	1027.5	1027.5
2.5°	1027.5	1025.4	1024.3	1028.0	1030.1
5°	1022.8	1020.2	1020.2	1025.4	1028.5
7.5°	1014.5	1011.9	1015.0	1019.7	1022.8
10°	1002.5	1001.5	1003.6	1009.8	1013.9
12.5°	986.9	987.4	989.5	999.4	1004.6
15°	967.7	969.8	974.4	984.8	991.1
17.5°	946.9	948.5	955.7	967.7	976.5
20°	922.0	925.1	933.9	949.0	957.8
22.5°	894.4	898.1	909.0	927.2	938.1
25°	863.2	866.9	880.9	901.7	913.1
27.5°	827.9	833.6	849.2	872.1	887.7
30°	790.5	795.2	812.8	838.8	851.8
32.5°	750.5	756.2	772.8	797.7	809.2
35°	708.4	711.5	728.1	749.9	765.0
37.5°	660.5	662.1	677.7	698.0	711.5
40°	609.1	610.1	624.2	643.4	655.3
42.5°	555.6	556.1	571.2	585.7	596.1
45°	499.4	505.2	517.6	530.1	536.3
47.5°	449.0	453.2	464.6	475.5	481.2
50°	396.5	406.9	414.7	420.4	427.2
52.5°	351.3	360.2	362.2	369.0	374.7
55°	307.7	313.9	311.8	317.5	323.3
57.5°	270.8	267.6	260.9	270.8	278.0
60°	235.9	227.6	216.2	229.7	240.6
62.5°	204.8	191.3	177.2	190.7	208.9
65°	177.2	163.2	146.0	159.0	178.3
67.5°	156.4	141.9	121.6	134.6	153.8
70°	140.8	125.8	105.0	115.9	133.0
72.5°	128.4	112.3	94.1	101.3	115.9
75°	116.4	100.3	87.3	89.4	102.9
77.5°	102.4	90.4	80.0	79.0	89.4
80°	85.8	82.1	69.6	68.1	73.8
82.5°	70.7	69.1	57.2	55.6	57.7
85°	51.5	53.5	40.5	39.5	41.6
87.5°	27.0	29.6	21.3	22.3	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)