

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: P292450

Luminaire Tested: **22GR-LD5-43-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292450
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-LD5-43-A125-UNV-L93050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3683.0 lumens
Efficiency: N/A
Efficacy: 102.9 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

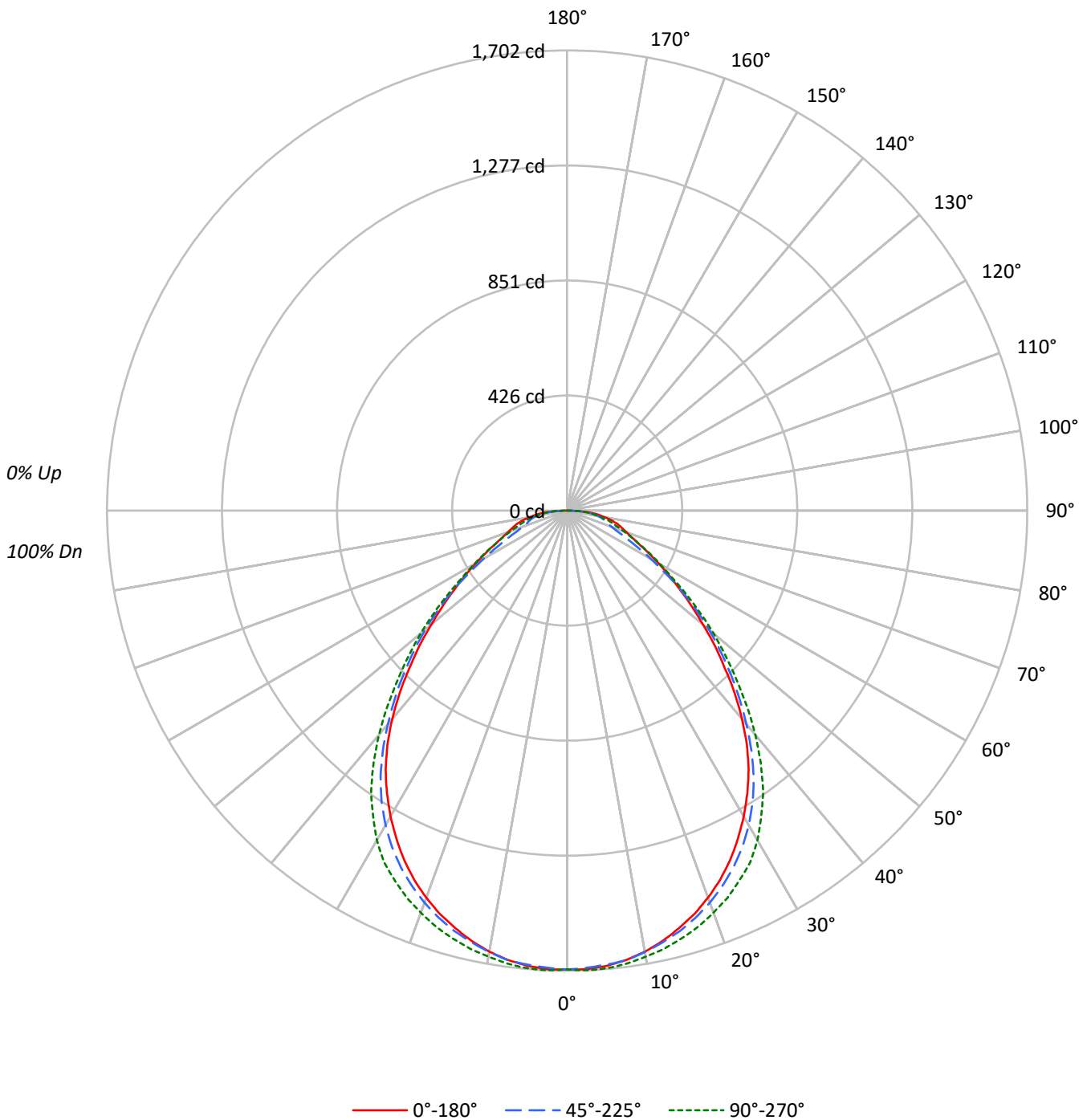
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4568	4568	4568
5°	4565	4554	4591
10°	4526	4531	4578
15°	4454	4486	4562
20°	4363	4419	4532
25°	4235	4322	4480
30°	4058	4173	4373
35°	3845	3952	4152
40°	3535	3623	3804
45°	3140	3255	3373
50°	2743	2869	2955
55°	2385	2417	2506
60°	2098	1922	2140
65°	1864	1536	1875
70°	1831	1365	1729
75°	2000	1500	1768
80°	2196	1784	1889
85°	2624	2069	2121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	4.4
10°-20°	455.0	12.4
20°-30°	671.7	18.2
30°-40°	751.6	20.4
40°-50°	660.1	17.9
50°-60°	467.1	12.7
60°-70°	271.8	7.4
70°-80°	169.4	4.6
80°-90°	75.8	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°	1287.2	34.9
0°-40°	2038.8	55.4
0°-60°	3165.9	86.0
0°-90°	3683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3683.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1698	1698	1698	1698	1698	
5°	1690	1686	1686	1694	1699	160
15°	1599	1602	1610	1627	1638	451
25°	1426	1432	1456	1490	1509	655
35°	1170	1176	1203	1239	1264	728
45°	825	835	855	876	886	638
55°	508	519	515	525	534	460
65°	293	270	241	263	294	297
75°	192	166	144	148	170	201
85°	85	88	67	65	69	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1697.7	1697.7	1697.7	1697.7	1697.7
2.5°	1697.7	1694.2	1692.5	1698.5	1702.0
5°	1690.0	1685.7	1685.7	1694.2	1699.4
7.5°	1676.2	1671.9	1677.1	1684.8	1690.0
10°	1656.5	1654.7	1658.2	1668.5	1675.4
12.5°	1630.7	1631.6	1635.0	1651.3	1659.9
15°	1598.9	1602.4	1610.1	1627.3	1637.6
17.5°	1564.6	1567.2	1579.2	1598.9	1613.5
20°	1523.4	1528.5	1543.1	1568.0	1582.6
22.5°	1477.8	1483.9	1501.9	1531.9	1550.0
25°	1426.3	1432.3	1455.5	1489.9	1508.8
27.5°	1367.9	1377.4	1403.1	1440.9	1466.7
30°	1306.1	1313.8	1343.0	1386.0	1407.4
32.5°	1240.0	1249.4	1276.9	1318.1	1337.0
35°	1170.4	1175.6	1203.1	1239.1	1264.0
37.5°	1091.4	1094.0	1119.8	1153.3	1175.6
40°	1006.4	1008.1	1031.3	1063.1	1082.8
42.5°	918.0	918.8	943.7	967.8	984.9
45°	825.2	834.7	855.3	875.9	886.2
47.5°	741.9	748.8	767.7	785.7	795.2
50°	655.2	672.4	685.3	694.7	705.9
52.5°	580.5	595.1	598.5	609.7	619.1
55°	508.4	518.7	515.2	524.7	534.1
57.5°	447.4	442.2	431.1	447.4	459.4
60°	389.9	376.1	357.2	379.6	397.6
62.5°	338.3	316.0	292.8	315.1	345.2
65°	292.8	269.6	241.3	262.8	294.5
67.5°	258.5	234.4	200.9	222.4	254.2
70°	232.7	207.8	173.5	191.5	219.8
72.5°	212.1	185.5	155.4	167.4	191.5
75°	192.4	165.7	144.3	147.7	170.0
77.5°	169.2	149.4	132.2	130.5	147.7
80°	141.7	135.7	115.1	112.5	121.9
82.5°	116.8	114.2	94.5	91.9	95.3
85°	85.0	88.4	67.0	65.3	68.7
87.5°	44.7	48.9	35.2	36.9	37.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)