

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: P293868

Luminaire Tested: **24GR-LD5-42-A125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-A125-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3882.0 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

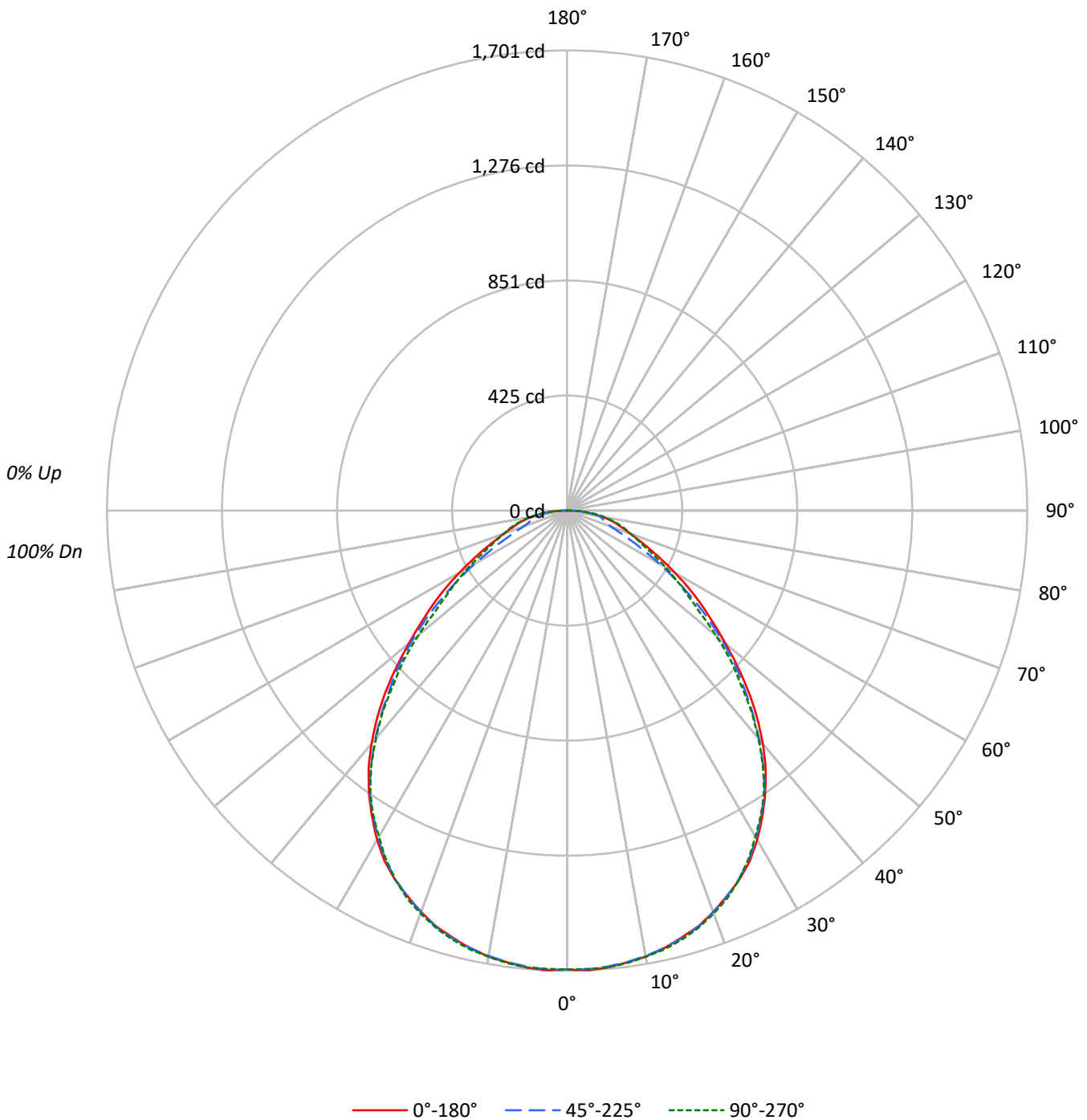
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2282	2282	2282
5°	2290	2285	2289
10°	2287	2284	2288
15°	2276	2280	2286
20°	2261	2261	2269
25°	2235	2231	2232
30°	2183	2172	2161
35°	2097	2091	2083
40°	1975	1939	1931
45°	1807	1757	1725
50°	1597	1566	1505
55°	1421	1324	1273
60°	1237	1059	1136
65°	1068	821	1004
70°	974	672	972
75°	982	724	1032
80°	1023	943	1089
85°	1065	1122	1206



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	4.1
10°-20°	461.5	11.9
20°-30°	690.8	17.8
30°-40°	789.3	20.3
40°-50°	713.6	18.4
50°-60°	513.4	13.2
60°-70°	297.7	7.7
70°-80°	176.6	4.5
80°-90°	78.2	2.0
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°	1313.2	33.8
0°-40°	2102.5	54.2
0°-60°	3329.6	85.8
0°-90°	3882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3882.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1696	1696	1696	1696	1696	
5°	1696	1693	1692	1690	1695	161
15°	1634	1637	1637	1635	1641	461
25°	1506	1504	1502	1500	1504	692
35°	1277	1271	1273	1257	1268	796
45°	950	933	924	915	907	730
55°	606	594	564	550	543	542
65°	336	298	258	288	316	339
75°	189	158	139	172	199	200
85°	69	74	73	84	78	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1696.3	1696.3	1696.3	1696.3	1696.3
2.5°	1701.1	1695.1	1698.1	1696.3	1695.7
5°	1695.7	1693.3	1692.1	1689.6	1695.1
7.5°	1684.8	1683.0	1683.6	1684.2	1687.8
10°	1673.9	1670.9	1671.5	1672.7	1674.5
12.5°	1656.9	1655.1	1655.7	1656.9	1661.2
15°	1633.9	1636.9	1636.9	1635.1	1641.2
17.5°	1610.9	1610.3	1613.3	1607.9	1616.4
20°	1578.8	1579.4	1578.8	1579.4	1584.9
22.5°	1542.5	1545.5	1543.7	1543.7	1549.7
25°	1505.5	1503.7	1502.5	1499.5	1503.7
27.5°	1461.3	1457.7	1454.7	1448.6	1451.6
30°	1405.0	1405.6	1397.7	1392.3	1391.1
32.5°	1342.0	1342.0	1334.8	1330.5	1334.1
35°	1276.6	1270.6	1273.0	1257.2	1268.1
37.5°	1205.8	1196.1	1190.6	1185.2	1188.8
40°	1124.6	1111.9	1104.0	1093.1	1099.2
42.5°	1039.2	1023.5	1013.8	1005.9	1008.3
45°	949.6	933.2	923.5	915.1	906.6
47.5°	855.1	844.8	840.0	829.1	819.4
50°	763.1	759.4	747.9	738.8	718.9
52.5°	678.9	675.9	657.7	642.5	617.1
55°	605.6	594.1	564.4	549.9	542.6
57.5°	531.1	512.3	476.6	474.8	479.6
60°	459.7	436.6	393.6	403.3	422.1
62.5°	394.9	360.3	319.2	342.2	364.6
65°	335.5	298.0	258.0	288.3	315.5
67.5°	286.5	248.9	207.7	248.3	279.8
70°	247.7	209.5	170.8	217.4	247.1
72.5°	215.6	181.1	149.0	193.2	224.1
75°	188.9	158.1	139.3	172.0	198.6
77.5°	162.3	137.5	133.2	153.2	169.6
80°	132.0	120.5	121.7	134.4	140.5
82.5°	98.7	99.3	102.3	112.6	110.2
85°	69.0	74.5	72.7	83.6	78.1
87.5°	38.2	41.8	39.4	47.8	43.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)