

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: P292346

Luminaire Tested: **22GR-LD5-40-A125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292346
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-LD5-40-A125-UNV-L83050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3835.0 lumens
Efficiency: N/A
Efficacy: 118.8 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

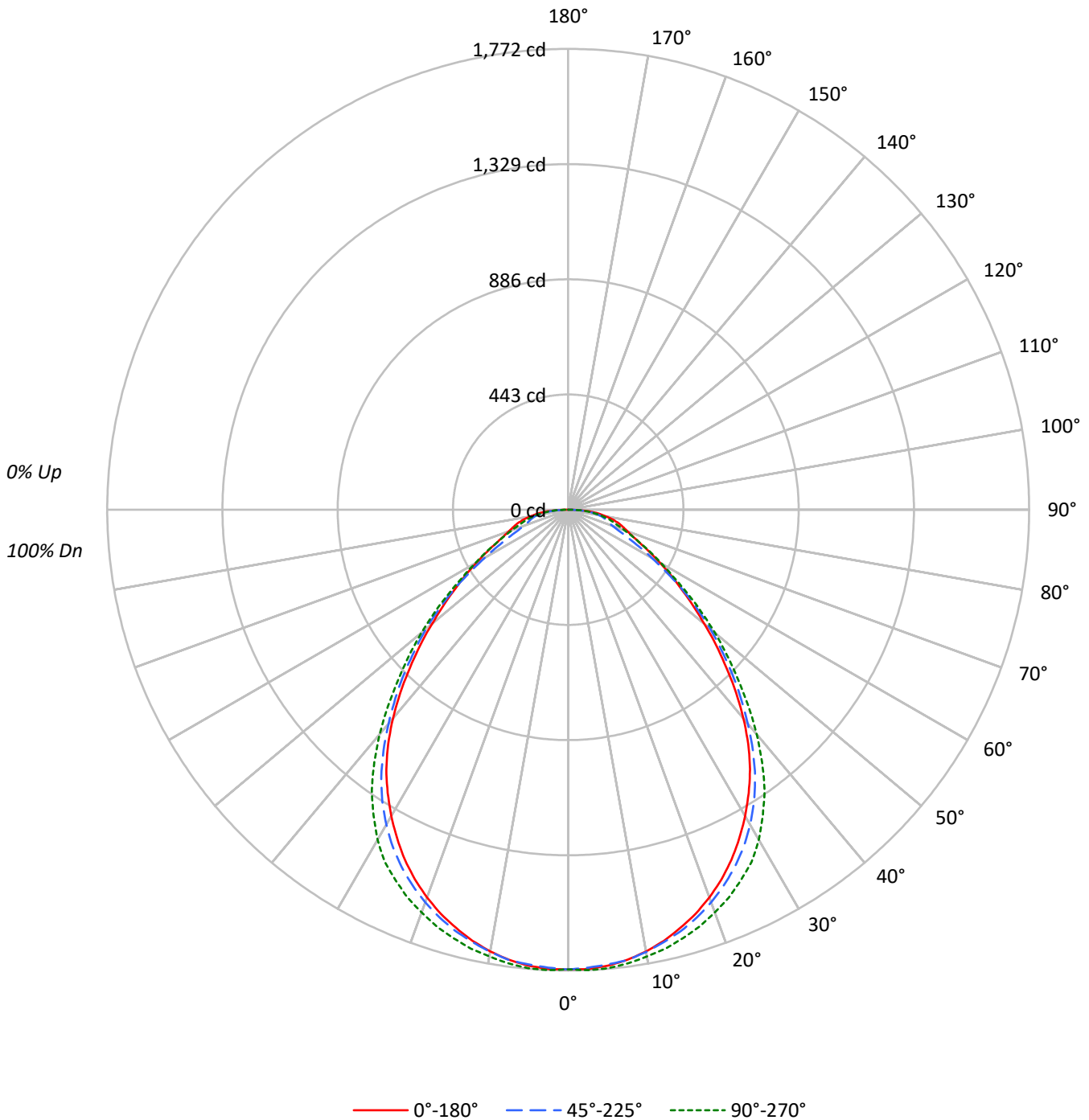
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4757	4757	4757
5°	4753	4741	4780
10°	4713	4718	4767
15°	4638	4671	4751
20°	4542	4601	4719
25°	4410	4500	4665
30°	4226	4346	4554
35°	4004	4115	4324
40°	3681	3772	3961
45°	3270	3389	3512
50°	2856	2987	3077
55°	2483	2517	2609
60°	2185	2002	2228
65°	1941	1600	1953
70°	1906	1421	1801
75°	2083	1562	1840
80°	2286	1857	1968
85°	2732	2152	2208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	4.4
10°-20°	473.8	12.4
20°-30°	699.4	18.2
30°-40°	782.7	20.4
40°-50°	687.3	17.9
50°-60°	486.3	12.7
60°-70°	283.1	7.4
70°-80°	176.4	4.6
80°-90°	78.9	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°	1340.3	34.9
0°-40°	2123.0	55.4
0°-60°	3296.6	86.0
0°-90°	3835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3835.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1768	1768	1768	1768	1768	
5°	1760	1755	1755	1764	1770	167
15°	1665	1668	1676	1694	1705	469
25°	1485	1492	1516	1551	1571	682
35°	1219	1224	1253	1290	1316	758
45°	859	869	891	912	923	665
55°	529	540	536	546	556	478
65°	305	281	251	274	307	309
75°	200	173	150	154	177	209
85°	88	92	70	68	72	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1767.7	1767.7	1767.7	1767.7	1767.7
2.5°	1767.7	1764.2	1762.4	1768.6	1772.2
5°	1759.7	1755.2	1755.2	1764.2	1769.5
7.5°	1745.4	1740.9	1746.3	1754.3	1759.7
10°	1724.8	1723.0	1726.6	1737.3	1744.5
12.5°	1698.0	1698.9	1702.5	1719.5	1728.4
15°	1664.9	1668.5	1676.5	1694.4	1705.2
17.5°	1629.2	1631.8	1644.4	1664.9	1680.1
20°	1586.2	1591.6	1606.8	1632.7	1647.9
22.5°	1538.8	1545.1	1563.9	1595.2	1614.0
25°	1485.2	1491.5	1515.6	1551.4	1571.0
27.5°	1424.4	1434.2	1461.0	1500.4	1527.2
30°	1360.0	1368.1	1398.5	1443.2	1465.5
32.5°	1291.2	1301.0	1329.6	1372.5	1392.2
35°	1218.7	1224.1	1252.7	1290.3	1316.2
37.5°	1136.5	1139.2	1166.0	1200.9	1224.1
40°	1047.9	1049.7	1073.9	1107.0	1127.5
42.5°	955.9	956.7	982.7	1007.7	1025.6
45°	859.3	869.1	890.6	912.0	922.8
47.5°	772.6	779.7	799.4	818.2	828.0
50°	682.2	700.1	713.5	723.4	735.0
52.5°	604.4	619.6	623.2	634.9	644.7
55°	529.3	540.1	536.5	546.3	556.2
57.5°	465.9	460.5	448.9	465.9	478.4
60°	405.9	391.6	372.0	395.2	414.0
62.5°	352.3	329.0	304.9	328.2	359.5
65°	304.9	280.8	251.3	273.6	306.7
67.5°	269.1	244.1	209.2	231.6	264.7
70°	242.3	216.4	180.6	199.4	228.9
72.5°	220.9	193.1	161.8	174.4	199.4
75°	200.3	172.6	150.2	153.8	177.0
77.5°	176.1	155.6	137.7	135.9	153.8
80°	147.5	141.3	119.8	117.1	127.0
82.5°	121.6	118.9	98.4	95.7	99.3
85°	88.5	92.1	69.7	68.0	71.5
87.5°	46.5	51.0	36.7	38.4	39.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)