

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: P292405

Luminaire Tested: **22GR-LD5-40-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292405
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-L82765-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4122.0 lumens
Efficiency: N/A
Efficacy: 124.9 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

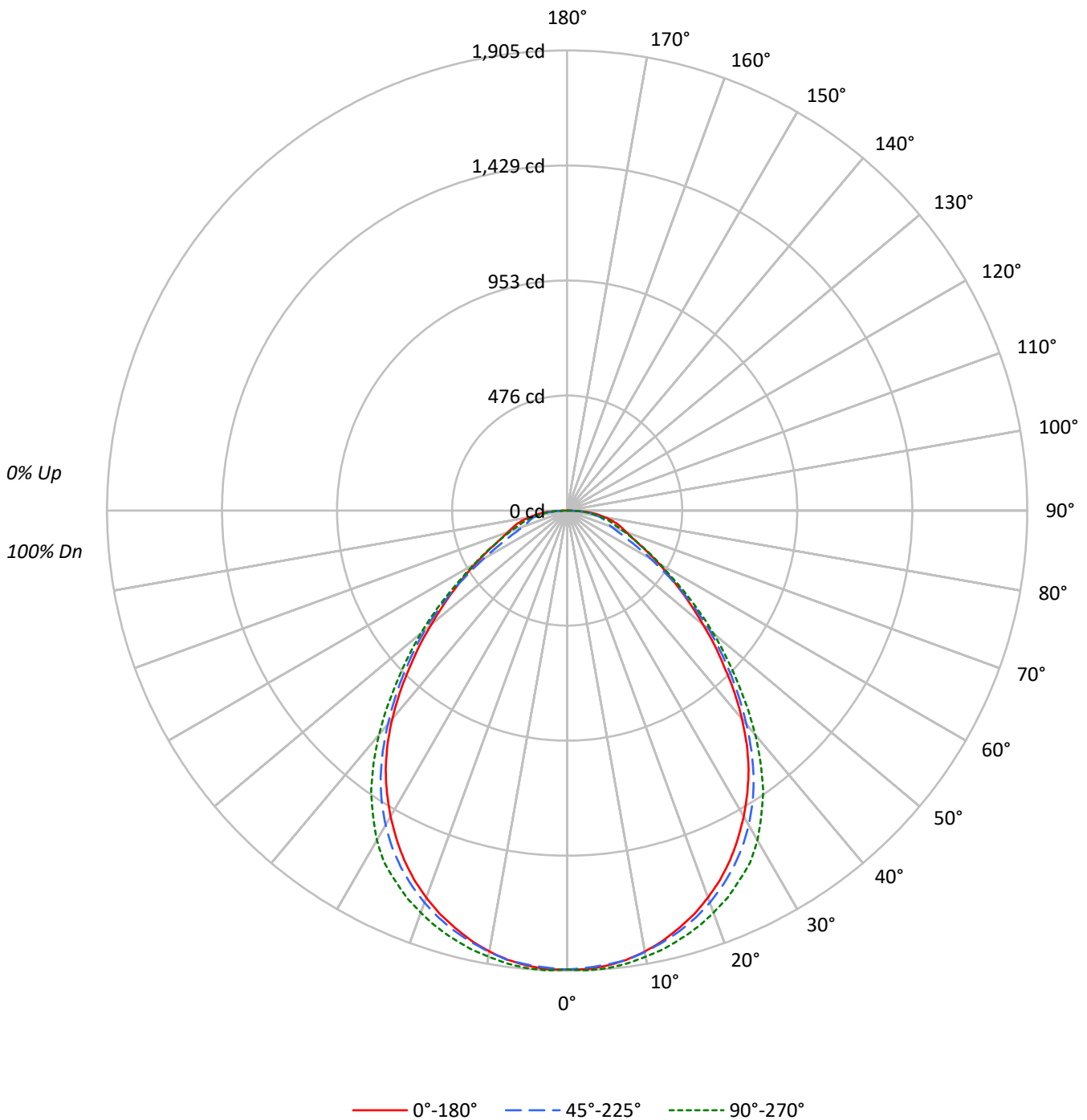
Input Watts (W): 33.015
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5113	5113	5113
5°	5109	5096	5138
10°	5066	5071	5123
15°	4985	5020	5106
20°	4882	4946	5072
25°	4740	4837	5014
30°	4542	4671	4895
35°	4303	4423	4647
40°	3957	4055	4257
45°	3515	3643	3774
50°	3070	3211	3307
55°	2670	2705	2805
60°	2348	2152	2395
65°	2087	1720	2099
70°	2050	1527	1936
75°	2239	1679	1979
80°	2458	1996	2115
85°	2936	2316	2374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.6	4.4
10°-20°	509.2	12.4
20°-30°	751.8	18.2
30°-40°	841.2	20.4
40°-50°	738.7	17.9
50°-60°	522.7	12.7
60°-70°	304.3	7.4
70°-80°	189.6	4.6
80°-90°	84.8	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°	1440.6	34.9
0°-40°	2281.8	55.4
0°-60°	3543.3	86.0
0°-90°	4122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1900	1900	1900	1900	1900	
5°	1891	1887	1887	1896	1902	179
15°	1790	1793	1802	1821	1833	504
25°	1596	1603	1629	1668	1689	733
35°	1310	1316	1346	1387	1415	815
45°	924	934	957	980	992	714
55°	569	580	577	587	598	514
65°	328	302	270	294	330	332
75°	215	186	162	165	190	225
85°	95	99	75	73	77	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1900.0	1900.0	1900.0	1900.0	1900.0
2.5°	1900.0	1896.2	1894.3	1901.0	1904.8
5°	1891.4	1886.6	1886.6	1896.2	1902.0
7.5°	1876.0	1871.2	1877.0	1885.6	1891.4
10°	1853.9	1852.0	1855.8	1867.4	1875.0
12.5°	1825.1	1826.0	1829.9	1848.1	1857.8
15°	1789.5	1793.4	1802.0	1821.2	1832.8
17.5°	1751.1	1754.0	1767.4	1789.5	1805.9
20°	1704.9	1710.7	1727.0	1754.9	1771.3
22.5°	1654.0	1660.7	1680.9	1714.6	1734.7
25°	1596.3	1603.1	1629.0	1667.5	1688.6
27.5°	1531.0	1541.6	1570.4	1612.7	1641.5
30°	1461.8	1470.4	1503.1	1551.2	1575.2
32.5°	1387.8	1398.4	1429.1	1475.2	1496.4
35°	1309.9	1315.7	1346.5	1386.8	1414.7
37.5°	1221.5	1224.4	1253.2	1290.7	1315.7
40°	1126.4	1128.3	1154.2	1189.8	1211.9
42.5°	1027.4	1028.3	1056.2	1083.1	1102.3
45°	923.6	934.2	957.2	980.3	991.8
47.5°	830.4	838.1	859.2	879.4	890.0
50°	733.3	752.5	766.9	777.5	790.0
52.5°	649.7	666.0	669.9	682.4	692.9
55°	569.0	580.5	576.6	587.2	597.8
57.5°	500.7	495.0	482.5	500.7	514.2
60°	436.3	420.9	399.8	424.8	445.0
62.5°	378.7	353.7	327.7	352.7	386.4
65°	327.7	301.8	270.1	294.1	329.6
67.5°	289.3	262.4	224.9	248.9	284.5
70°	260.5	232.6	194.1	214.3	246.0
72.5°	237.4	207.6	174.0	187.4	214.3
75°	215.3	185.5	161.5	165.3	190.3
77.5°	189.3	167.2	148.0	146.1	165.3
80°	158.6	151.8	128.8	125.9	136.5
82.5°	130.7	127.8	105.7	102.8	106.7
85°	95.1	99.0	75.0	73.0	76.9
87.5°	50.0	54.8	39.4	41.3	42.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)