

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: P292412

Luminaire Tested: **22GR-LD5-43-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292412
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-L82765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4232.0 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

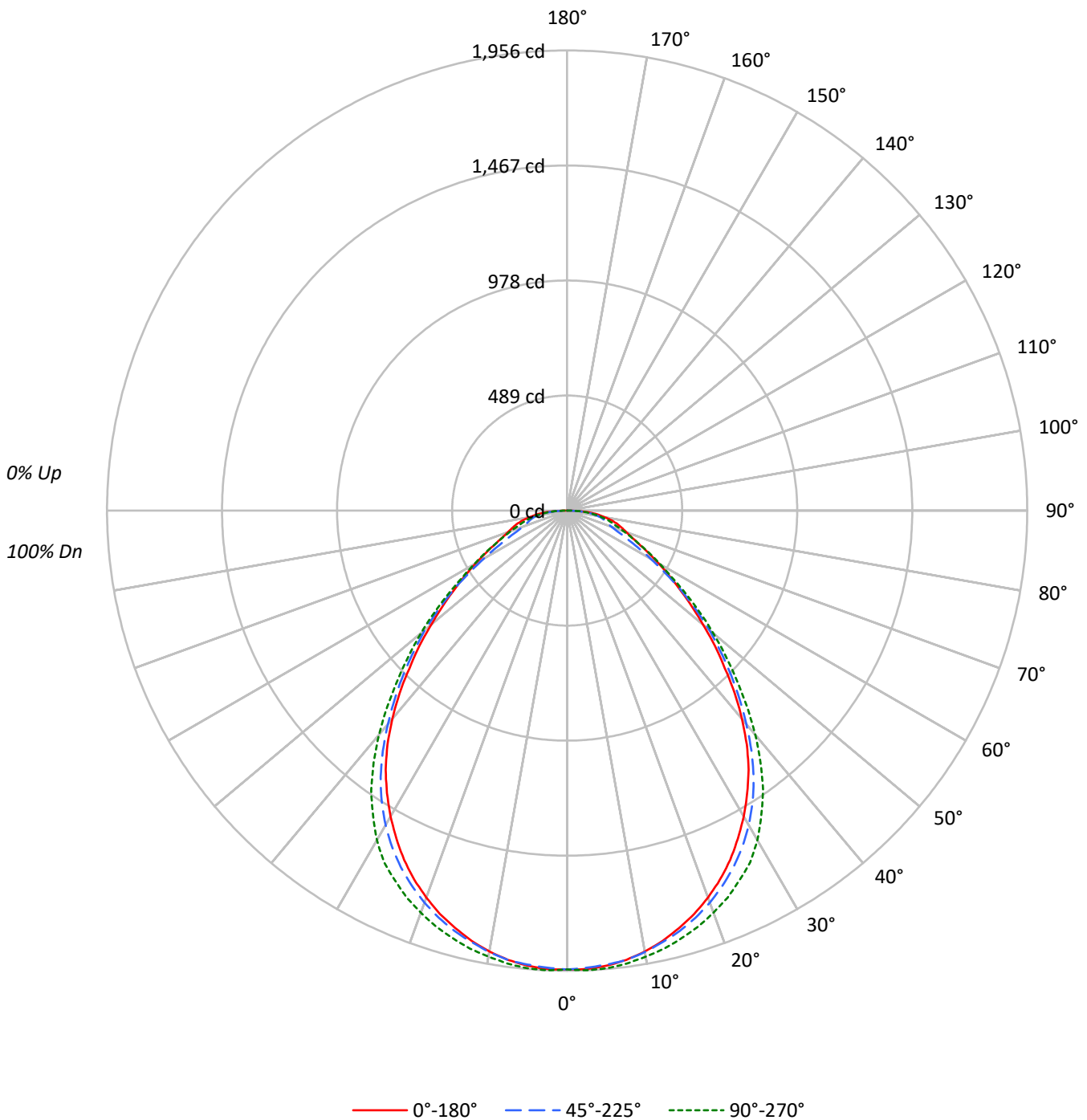
Input Watts (W): 35.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5249	5249	5249
5°	5246	5232	5275
10°	5201	5206	5260
15°	5119	5154	5242
20°	5013	5078	5208
25°	4866	4966	5148
30°	4663	4795	5025
35°	4418	4541	4771
40°	4062	4163	4371
45°	3608	3740	3875
50°	3152	3296	3396
55°	2740	2777	2879
60°	2411	2209	2459
65°	2143	1766	2155
70°	2104	1568	1987
75°	2298	1724	2032
80°	2523	2049	2171
85°	3017	2377	2436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.4	4.4
10°-20°	522.8	12.4
20°-30°	771.8	18.2
30°-40°	863.7	20.4
40°-50°	758.4	17.9
50°-60°	536.7	12.7
60°-70°	312.4	7.4
70°-80°	194.7	4.6
80°-90°	87.1	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°	1479.0	34.9
0°-40°	2342.7	55.4
0°-60°	3637.8	86.0
0°-90°	4232.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4232.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1951	1951	1951	1951	1951	
5°	1942	1937	1937	1947	1953	184
15°	1837	1841	1850	1870	1882	518
25°	1639	1646	1672	1712	1734	753
35°	1345	1351	1382	1424	1452	836
45°	948	959	983	1006	1018	733
55°	584	596	592	603	614	528
65°	336	310	277	302	338	341
75°	221	190	166	170	195	231
85°	98	102	77	75	79	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1950.7	1950.7	1950.7	1950.7	1950.7
2.5°	1950.7	1946.8	1944.8	1951.7	1955.7
5°	1941.9	1936.9	1936.9	1946.8	1952.7
7.5°	1926.1	1921.1	1927.1	1935.9	1941.9
10°	1903.4	1901.4	1905.4	1917.2	1925.1
12.5°	1873.8	1874.8	1878.7	1897.5	1907.3
15°	1837.3	1841.2	1850.1	1869.8	1881.7
17.5°	1797.8	1800.8	1814.6	1837.3	1854.0
20°	1750.4	1756.4	1773.1	1801.7	1818.5
22.5°	1698.1	1705.0	1725.8	1760.3	1781.0
25°	1638.9	1645.8	1672.5	1712.0	1733.7
27.5°	1571.8	1582.7	1612.3	1655.7	1685.3
30°	1500.8	1509.7	1543.2	1592.6	1617.2
32.5°	1424.8	1435.7	1467.3	1514.6	1536.3
35°	1344.9	1350.8	1382.4	1423.8	1452.4
37.5°	1254.1	1257.1	1286.7	1325.2	1350.8
40°	1156.4	1158.4	1185.0	1221.6	1244.3
42.5°	1054.8	1055.8	1084.4	1112.0	1131.8
45°	948.2	959.1	982.8	1006.5	1018.3
47.5°	852.5	860.4	882.1	902.8	913.7
50°	752.9	772.6	787.4	798.3	811.1
52.5°	667.0	683.8	687.7	700.6	711.4
55°	584.1	596.0	592.0	602.9	613.7
57.5°	514.1	508.2	495.3	514.1	527.9
60°	448.0	432.2	410.5	436.1	456.9
62.5°	388.8	363.1	336.5	362.1	396.7
65°	336.5	309.8	277.3	301.9	338.4
67.5°	297.0	269.4	230.9	255.6	292.1
70°	267.4	238.8	199.3	220.0	252.6
72.5°	243.7	213.1	178.6	192.4	220.0
75°	221.0	190.4	165.8	169.7	195.4
77.5°	194.4	171.7	152.0	150.0	169.7
80°	162.8	155.9	132.2	129.3	140.1
82.5°	134.2	131.2	108.5	105.6	109.5
85°	97.7	101.6	77.0	75.0	78.9
87.5°	51.3	56.2	40.5	42.4	43.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)