

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: P292211

Luminaire Tested: **22GR-LD5-40-A-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-A-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4228.0 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

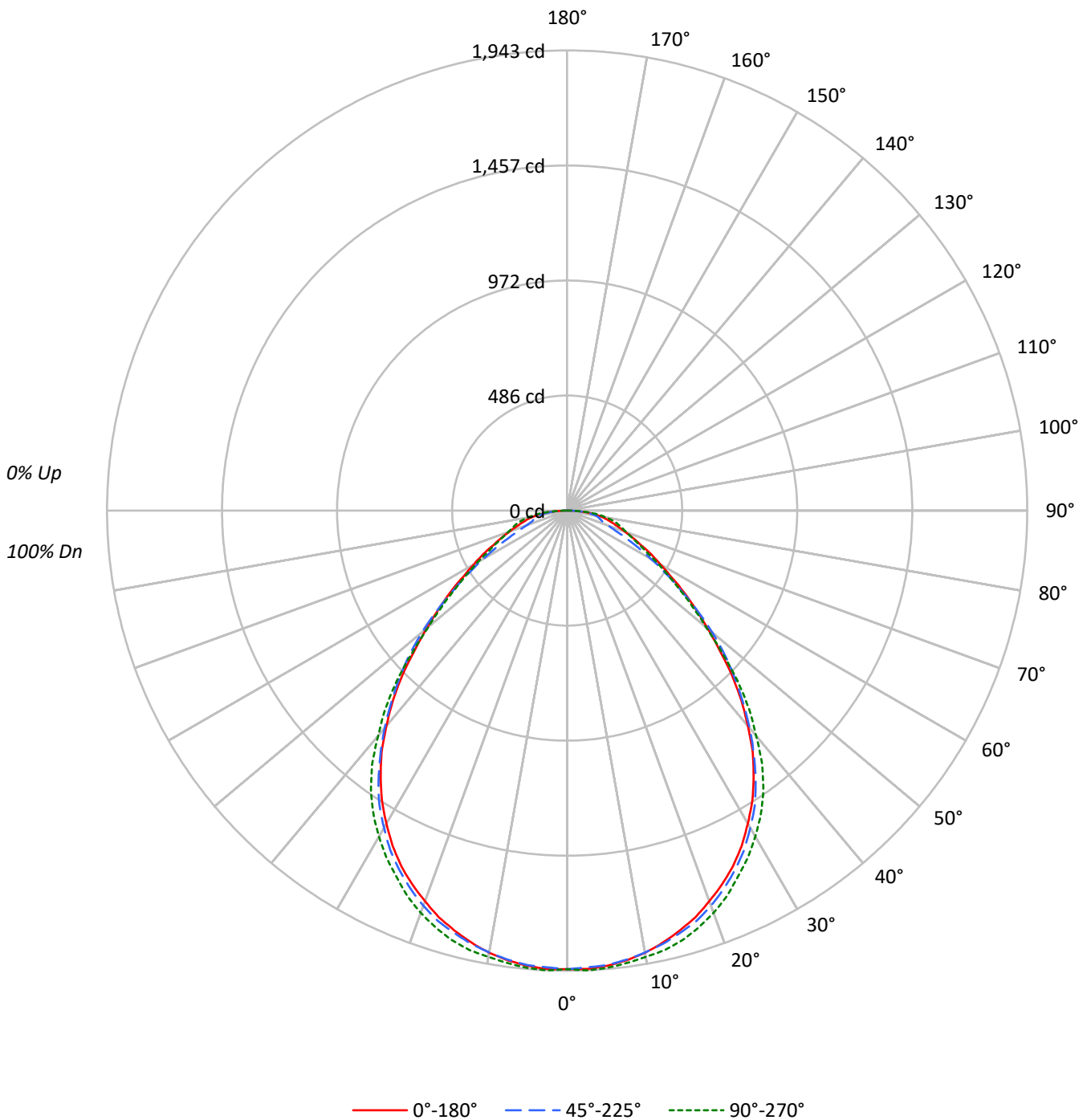
Input Watts (W): 33.294
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	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	53	46	42	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	35	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	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5211	5211	5211
5°	5212	5204	5236
10°	5181	5178	5229
15°	5115	5142	5232
20°	5026	5086	5176
25°	4919	4975	5065
30°	4742	4806	4937
35°	4509	4561	4745
40°	4168	4213	4362
45°	3744	3812	3871
50°	3237	3353	3205
55°	2825	2751	2714
60°	2447	2203	2351
65°	2187	1729	2111
70°	2028	1432	2083
75°	2025	1514	2312
80°	2241	1906	2607
85°	2340	2066	2946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.2	4.3
10°-20°	521.9	12.3
20°-30°	771.8	18.3
30°-40°	871.0	20.6
40°-50°	767.8	18.2
50°-60°	526.7	12.5
60°-70°	310.8	7.4
70°-80°	193.9	4.6
80°-90°	80.9	1.9
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°	1476.9	34.9
0°-40°	2347.9	55.5
0°-60°	3642.4	86.1
0°-90°	4228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1936	1936	1936	1936	1936	
5°	1929	1925	1926	1933	1938	183
15°	1836	1838	1846	1868	1878	517
25°	1657	1663	1676	1697	1706	761
35°	1372	1384	1388	1422	1444	855
45°	984	989	1002	1008	1017	756
55°	602	587	586	567	578	540
65°	343	302	272	314	332	346
75°	195	175	146	204	222	209
85°	76	71	67	88	95	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1936.3	1936.3	1936.3	1936.3	1936.3
2.5°	1937.3	1932.3	1930.4	1938.2	1943.2
5°	1929.4	1925.4	1926.4	1933.3	1938.2
7.5°	1915.6	1912.7	1912.7	1922.5	1927.4
10°	1895.9	1894.9	1894.9	1906.8	1913.6
12.5°	1868.4	1869.4	1873.3	1889.0	1900.9
15°	1835.9	1837.9	1845.8	1868.4	1878.2
17.5°	1800.5	1800.5	1816.2	1833.9	1845.8
20°	1755.2	1758.2	1775.9	1795.6	1807.4
22.5°	1709.0	1713.9	1728.7	1751.3	1762.1
25°	1656.8	1662.8	1675.5	1697.2	1706.0
27.5°	1595.8	1603.7	1617.5	1633.2	1651.9
30°	1526.0	1537.8	1546.7	1568.3	1589.0
32.5°	1455.2	1466.0	1475.8	1498.4	1522.1
35°	1372.5	1384.3	1388.3	1421.7	1444.3
37.5°	1287.9	1292.8	1294.8	1328.2	1352.8
40°	1186.6	1196.4	1199.3	1225.9	1241.7
42.5°	1089.2	1093.1	1099.0	1118.7	1137.4
45°	983.9	988.8	1001.6	1007.5	1017.3
47.5°	873.7	888.4	903.2	884.5	885.5
50°	773.3	785.1	800.9	765.5	765.5
52.5°	683.8	689.7	690.7	661.2	667.1
55°	602.1	587.4	586.4	566.7	578.5
57.5°	520.5	500.8	493.9	488.0	501.8
60°	454.6	419.1	409.3	418.1	436.8
62.5°	400.4	355.2	336.5	359.1	375.8
65°	343.4	302.1	271.6	313.9	331.6
67.5°	299.1	259.7	220.4	280.4	293.2
70°	257.8	227.3	182.0	254.8	264.7
72.5°	224.3	200.7	157.4	230.2	242.0
75°	194.8	175.1	145.6	203.7	222.4
77.5°	171.2	149.5	135.8	176.1	198.7
80°	144.6	123.0	123.0	147.6	168.2
82.5°	114.1	96.4	99.4	120.0	134.8
85°	75.8	70.8	66.9	87.6	95.4
87.5°	38.4	39.4	35.4	45.3	46.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)