

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: P292213

Luminaire Tested: **22GR-LD5-40-A-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292213
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-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4250.0 lumens
Efficiency: N/A
Efficacy: 125.9 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

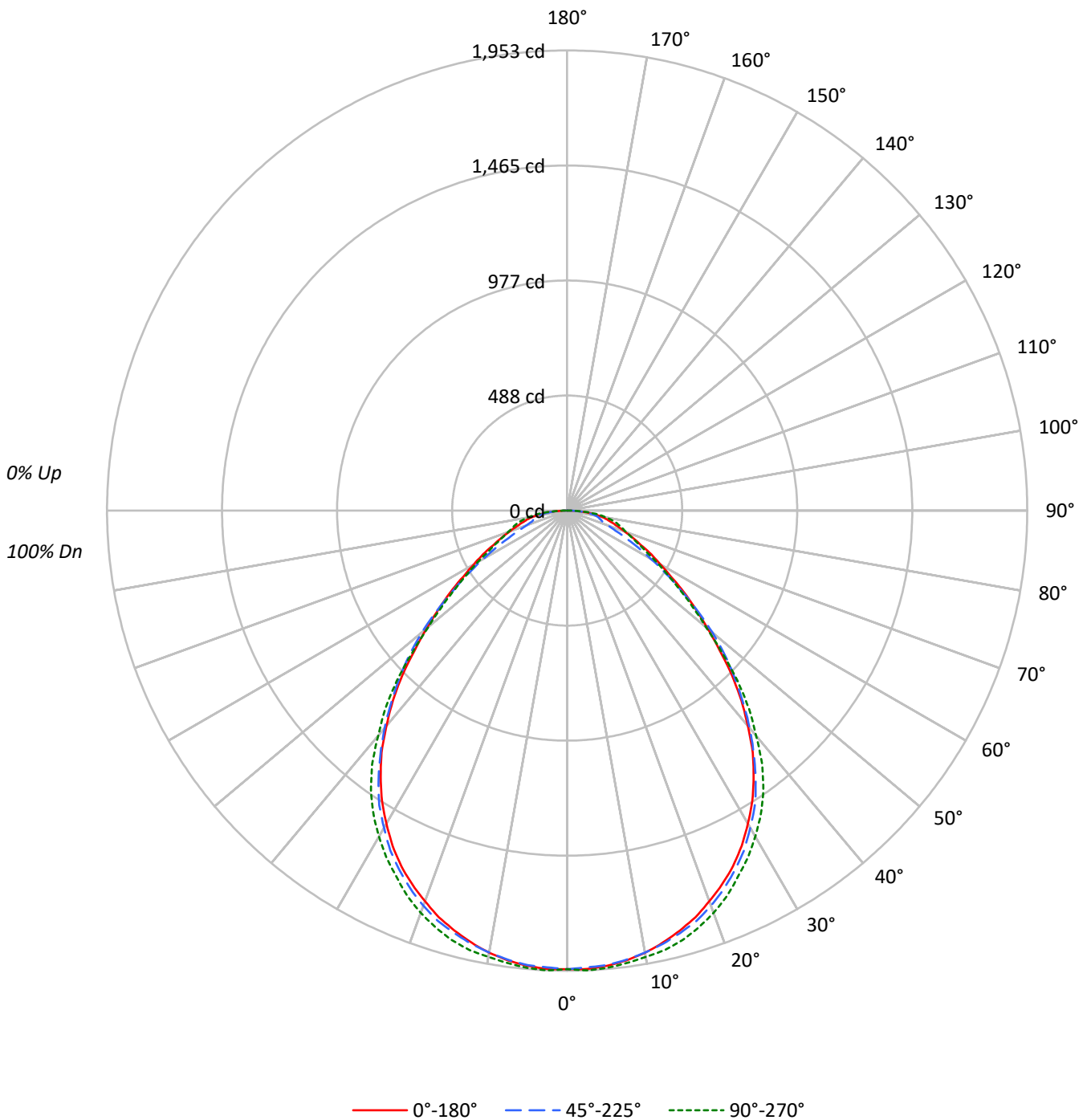
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5237	5237	5237
5°	5239	5231	5263
10°	5208	5205	5256
15°	5141	5169	5260
20°	5053	5112	5203
25°	4945	5001	5092
30°	4766	4831	4963
35°	4532	4584	4769
40°	4190	4235	4384
45°	3764	3831	3892
50°	3255	3370	3221
55°	2840	2765	2728
60°	2459	2214	2363
65°	2198	1738	2122
70°	2039	1440	2093
75°	2036	1522	2324
80°	2253	1915	2620
85°	2353	2078	2961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.2	4.3
10°-20°	524.6	12.3
20°-30°	775.8	18.3
30°-40°	875.5	20.6
40°-50°	771.8	18.2
50°-60°	529.4	12.5
60°-70°	312.4	7.4
70°-80°	194.9	4.6
80°-90°	81.3	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°	1484.6	34.9
0°-40°	2360.1	55.5
0°-60°	3661.3	86.1
0°-90°	4250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1946	1946	1946	1946	1946	
5°	1939	1936	1936	1943	1948	184
15°	1846	1847	1855	1878	1888	520
25°	1666	1671	1684	1706	1715	765
35°	1380	1392	1396	1429	1452	860
45°	989	994	1007	1013	1023	760
55°	605	590	589	570	582	543
65°	345	304	273	316	333	348
75°	196	176	146	205	224	210
85°	76	71	67	88	96	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1946.3	1946.3	1946.3	1946.3	1946.3
2.5°	1947.3	1942.4	1940.4	1948.3	1953.3
5°	1939.4	1935.5	1936.5	1943.4	1948.3
7.5°	1925.6	1922.6	1922.6	1932.5	1937.4
10°	1905.8	1904.8	1904.8	1916.7	1923.6
12.5°	1878.1	1879.1	1883.1	1898.9	1910.7
15°	1845.5	1847.4	1855.4	1878.1	1888.0
17.5°	1809.9	1809.9	1825.7	1843.5	1855.4
20°	1764.4	1767.3	1785.1	1804.9	1816.8
22.5°	1717.9	1722.8	1737.7	1760.4	1771.3
25°	1665.5	1671.4	1684.3	1706.0	1714.9
27.5°	1604.2	1612.1	1625.9	1641.7	1660.5
30°	1533.9	1545.8	1554.7	1576.5	1597.2
32.5°	1462.7	1473.6	1483.5	1506.2	1530.0
35°	1379.7	1391.5	1395.5	1429.1	1451.8
37.5°	1294.6	1299.5	1301.5	1335.1	1359.9
40°	1192.7	1202.6	1205.6	1232.3	1248.1
42.5°	1094.8	1098.8	1104.7	1124.5	1143.3
45°	989.0	993.9	1006.8	1012.7	1022.6
47.5°	878.2	893.1	907.9	889.1	890.1
50°	777.4	789.2	805.0	769.4	769.4
52.5°	687.4	693.3	694.3	664.6	670.5
55°	605.3	590.4	589.4	569.7	581.5
57.5°	523.2	503.4	496.5	490.5	504.4
60°	456.9	421.3	411.4	420.3	439.1
62.5°	402.5	357.0	338.2	361.0	377.8
65°	345.2	303.6	273.0	315.5	333.3
67.5°	300.7	261.1	221.5	281.9	294.7
70°	259.1	228.5	183.0	256.2	266.0
72.5°	225.5	201.8	158.2	231.4	243.3
75°	195.8	176.0	146.4	204.7	223.5
77.5°	172.1	150.3	136.5	177.0	199.8
80°	145.4	123.6	123.6	148.3	169.1
82.5°	114.7	96.9	99.9	120.7	135.5
85°	76.2	71.2	67.3	88.0	95.9
87.5°	38.6	39.6	35.6	45.5	46.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)