

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: P292216

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292216
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-LD5-43-A-UNV-L82765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4240.0 lumens
Efficiency: N/A
Efficacy: 120.0 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

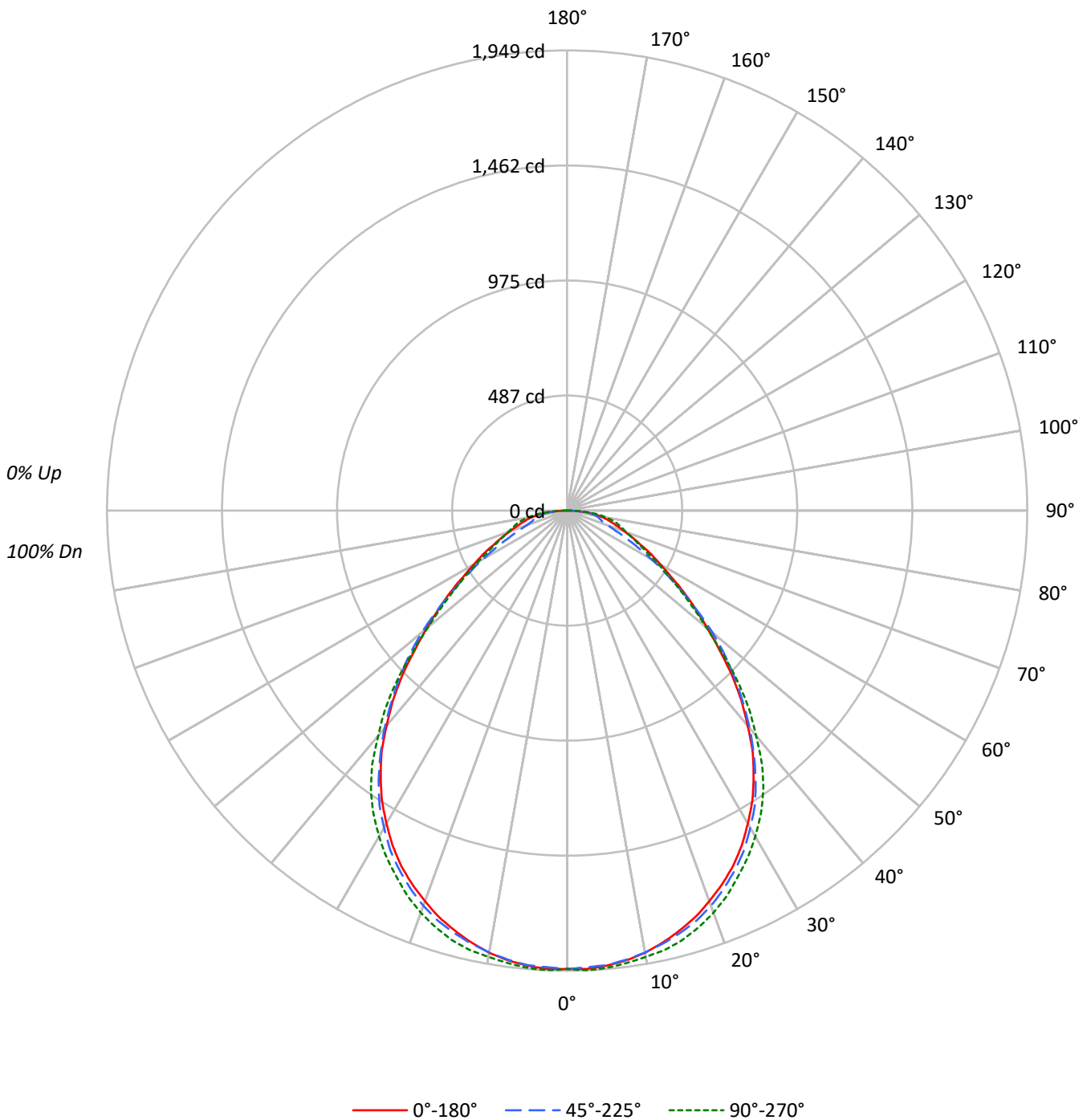
Input Watts (W): 35.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5225	5225	5225
5°	5227	5219	5250
10°	5195	5193	5244
15°	5129	5157	5248
20°	5041	5100	5190
25°	4934	4989	5080
30°	4755	4819	4951
35°	4522	4573	4758
40°	4180	4225	4374
45°	3755	3822	3882
50°	3247	3362	3213
55°	2833	2759	2722
60°	2453	2209	2358
65°	2192	1734	2117
70°	2034	1436	2088
75°	2032	1518	2319
80°	2247	1911	2614
85°	2347	2072	2955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	4.3
10°-20°	523.3	12.3
20°-30°	774.0	18.3
30°-40°	873.4	20.6
40°-50°	770.0	18.2
50°-60°	528.2	12.5
60°-70°	311.7	7.4
70°-80°	194.5	4.6
80°-90°	81.1	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°	1481.1	34.9
0°-40°	2354.6	55.5
0°-60°	3652.7	86.1
0°-90°	4240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4240.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1942	1942	1942	1942	1942	
5°	1935	1931	1932	1939	1944	184
15°	1841	1843	1851	1874	1884	519
25°	1662	1668	1680	1702	1711	763
35°	1376	1388	1392	1426	1448	858
45°	987	992	1004	1010	1020	758
55°	604	589	588	568	580	542
65°	344	303	272	315	332	347
75°	195	176	146	204	223	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°	1941.8	1941.8	1941.8	1941.8	1941.8
2.5°	1942.8	1937.8	1935.8	1943.7	1948.7
5°	1934.9	1930.9	1931.9	1938.8	1943.7
7.5°	1921.0	1918.1	1918.1	1928.0	1932.9
10°	1901.3	1900.3	1900.3	1912.2	1919.1
12.5°	1873.7	1874.7	1878.6	1894.4	1906.2
15°	1841.1	1843.1	1851.0	1873.7	1883.6
17.5°	1805.6	1805.6	1821.4	1839.2	1851.0
20°	1760.2	1763.2	1780.9	1800.7	1812.5
22.5°	1713.8	1718.8	1733.6	1756.3	1767.1
25°	1661.6	1667.5	1680.3	1702.0	1710.9
27.5°	1600.4	1608.3	1622.1	1637.9	1656.6
30°	1530.3	1542.2	1551.0	1572.8	1593.5
32.5°	1459.3	1470.1	1480.0	1502.7	1526.4
35°	1376.4	1388.2	1392.2	1425.7	1448.4
37.5°	1291.6	1296.5	1298.5	1332.0	1356.7
40°	1189.9	1199.8	1202.8	1229.4	1245.2
42.5°	1092.2	1096.2	1102.1	1121.8	1140.6
45°	986.7	991.6	1004.4	1010.4	1020.2
47.5°	876.2	891.0	905.8	887.0	888.0
50°	775.5	787.4	803.1	767.6	767.6
52.5°	685.7	691.7	692.6	663.0	669.0
55°	603.8	589.0	588.1	568.3	580.2
57.5°	521.9	502.2	495.3	489.4	503.2
60°	455.8	420.3	410.5	419.3	438.1
62.5°	401.6	356.2	337.4	360.1	376.9
65°	344.3	302.9	272.3	314.7	332.5
67.5°	299.9	260.5	221.0	281.2	294.0
70°	258.5	227.9	182.5	255.5	265.4
72.5°	225.0	201.3	157.9	230.9	242.7
75°	195.4	175.6	146.0	204.2	223.0
77.5°	171.7	150.0	136.2	176.6	199.3
80°	145.0	123.3	123.3	148.0	168.7
82.5°	114.5	96.7	99.7	120.4	135.2
85°	76.0	71.0	67.1	87.8	95.7
87.5°	38.5	39.5	35.5	45.4	46.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)