

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: P292612

Luminaire Tested: **22GR-LD5-43-A19/156-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-A19/156-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4458.0 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

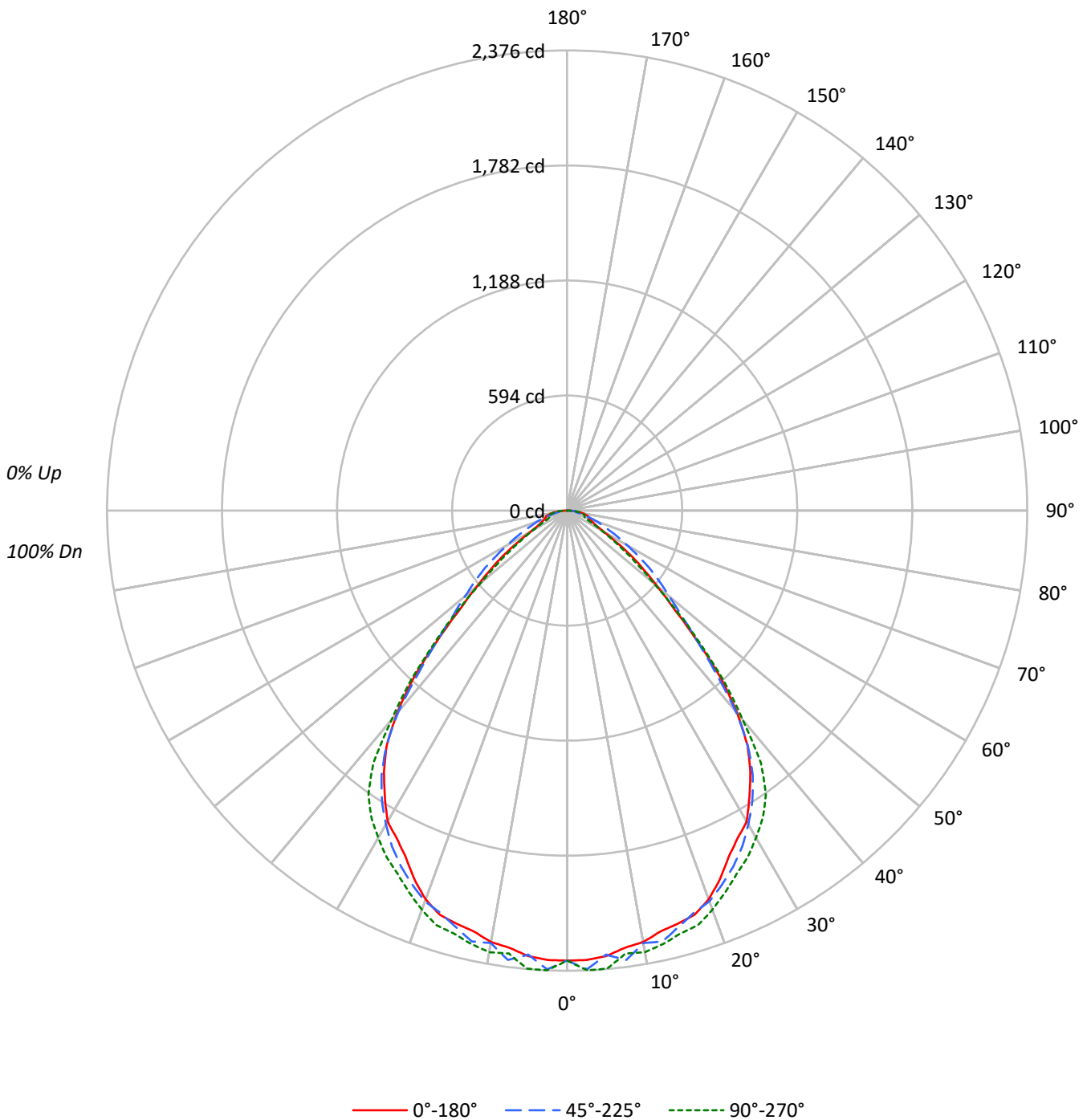
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	85	91	86	83	88	84	81	85	82	79	77
3	95	86	79	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56	54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6252	6252	6252
5°	6236	6216	6412
10°	6179	6196	6326
15°	6151	6198	6297
20°	6118	6148	6280
25°	5857	6022	6147
30°	5761	5813	6061
35°	5417	5486	5876
40°	4800	4767	4955
45°	3586	3594	3693
50°	2524	2871	2445
55°	1863	2425	1671
60°	1165	1917	1091
65°	950	1518	762
70°	942	1264	752
75°	1169	928	972
80°	1302	733	1189
85°	1297	1362	1331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.2	5.0
10°-20°	630.0	14.1
20°-30°	933.0	20.9
30°-40°	1045.1	23.4
40°-50°	768.0	17.2
50°-60°	429.3	9.6
60°-70°	239.2	5.4
70°-80°	140.6	3.2
80°-90°	51.7	1.2
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°	1784.2	40.0
0°-40°	2829.3	63.5
0°-60°	4026.5	90.3
0°-90°	4458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4458.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2323	2323	2323	2323	2323	
5°	2309	2352	2301	2349	2374	218
15°	2208	2222	2225	2258	2260	624
25°	1973	1988	2028	2057	2070	914
35°	1649	1650	1670	1746	1789	1022
45°	942	1019	944	1012	970	736
55°	397	483	517	516	356	354
65°	149	265	238	306	120	154
75°	112	159	89	180	94	113
85°	42	62	44	57	43	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2323.4	2323.4	2323.4	2323.4	2323.4
2.5°	2322.3	2343.3	2370.7	2373.8	2375.9
5°	2308.7	2351.7	2301.3	2348.6	2373.8
7.5°	2277.2	2303.4	2340.2	2292.9	2306.6
10°	2261.4	2267.7	2267.7	2326.5	2315.0
12.5°	2225.7	2267.7	2278.2	2266.7	2291.9
15°	2207.8	2221.5	2224.7	2258.3	2260.4
17.5°	2187.9	2184.7	2177.4	2201.5	2244.6
20°	2136.4	2124.9	2146.9	2176.3	2193.1
22.5°	2060.8	2063.9	2090.2	2114.4	2133.3
25°	1972.6	1988.3	2028.2	2056.6	2070.3
27.5°	1906.4	1929.5	1956.8	1990.4	2017.7
30°	1853.9	1851.8	1870.7	1919.0	1950.5
32.5°	1752.0	1759.3	1779.3	1837.1	1881.2
35°	1649.1	1650.1	1670.1	1745.7	1788.8
37.5°	1530.4	1522.0	1533.5	1615.4	1643.8
40°	1366.5	1368.6	1357.1	1414.8	1410.6
42.5°	1175.3	1192.2	1132.3	1207.9	1202.7
45°	942.2	1018.8	944.3	1011.5	970.5
47.5°	743.7	857.1	795.1	844.5	767.8
50°	602.9	719.5	685.9	707.9	584.0
52.5°	494.7	589.2	599.8	605.0	455.9
55°	397.0	483.2	516.8	515.7	356.1
57.5°	293.0	392.8	431.7	447.5	269.9
60°	216.4	326.7	356.1	390.7	202.7
62.5°	174.4	286.7	294.1	342.4	154.4
65°	149.2	264.7	238.4	305.7	119.7
67.5°	132.3	246.8	194.3	273.1	101.9
70°	119.7	219.5	160.7	244.7	95.6
72.5°	116.6	187.0	123.9	218.5	94.5
75°	112.4	158.6	89.3	179.6	93.5
77.5°	96.6	135.5	64.1	138.6	87.2
80°	84.0	108.2	47.3	104.0	76.7
82.5°	65.1	81.9	42.0	78.8	62.0
85°	42.0	62.0	44.1	56.7	43.1
87.5°	20.0	34.7	31.5	30.5	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)