

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: P292702

Luminaire Tested: **22GR-LD5-40-A19/156-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292702
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-LD5-40-A19/156-UNV-L92765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3786.0 lumens
Efficiency: N/A
Efficacy: 113.4 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

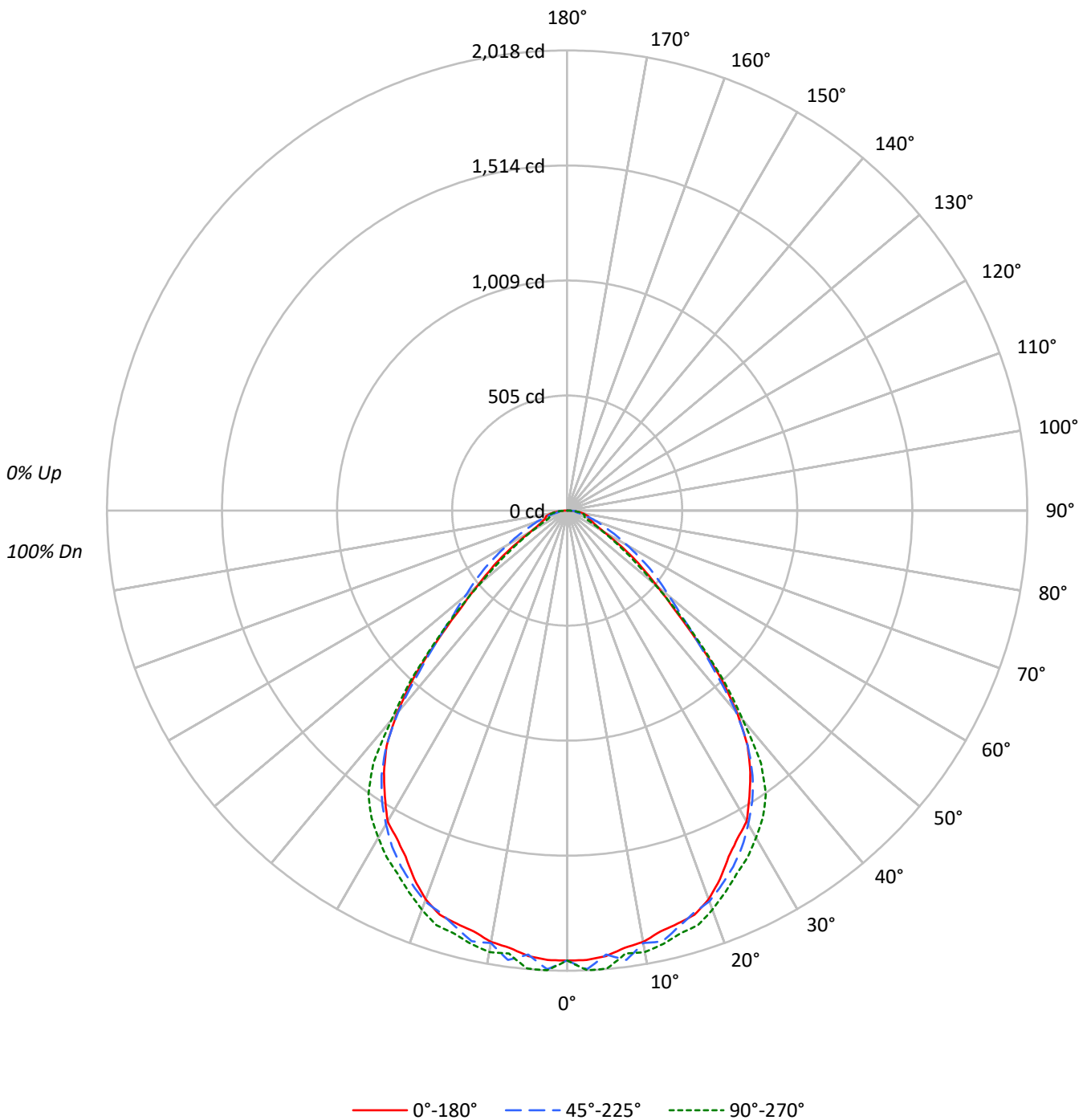
Input Watts (W): 33.387
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5310	5310	5310
5°	5296	5279	5446
10°	5248	5263	5372
15°	5224	5263	5348
20°	5196	5221	5334
25°	4974	5114	5220
30°	4892	4937	5147
35°	4601	4659	4990
40°	4077	4049	4208
45°	3045	3052	3137
50°	2143	2439	2076
55°	1582	2059	1419
60°	989	1628	927
65°	807	1289	648
70°	800	1074	639
75°	992	788	826
80°	1106	621	1009
85°	1102	1158	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	5.0
10°-20°	535.0	14.1
20°-30°	792.4	20.9
30°-40°	887.6	23.4
40°-50°	652.2	17.2
50°-60°	364.5	9.6
60°-70°	203.2	5.4
70°-80°	119.4	3.2
80°-90°	43.9	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°	1515.2	40.0
0°-40°	2402.8	63.5
0°-60°	3419.6	90.3
0°-90°	3786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1973	1973	1973	1973	1973	
5°	1961	1997	1954	1995	2016	186
15°	1875	1887	1889	1918	1920	530
25°	1675	1689	1722	1747	1758	776
35°	1400	1401	1418	1482	1519	868
45°	800	865	802	859	824	625
55°	337	410	439	438	302	301
65°	127	225	202	260	102	131
75°	95	135	76	152	79	96
85°	36	53	38	48	37	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1973.2	1973.2	1973.2	1973.2	1973.2
2.5°	1972.3	1990.1	2013.3	2016.0	2017.8
5°	1960.7	1997.2	1954.4	1994.6	2016.0
7.5°	1933.9	1956.2	1987.4	1947.3	1958.9
10°	1920.5	1925.9	1925.9	1975.8	1966.0
12.5°	1890.2	1925.9	1934.8	1925.0	1946.4
15°	1875.0	1886.6	1889.3	1917.9	1919.6
17.5°	1858.1	1855.4	1849.2	1869.7	1906.3
20°	1814.4	1804.6	1823.3	1848.3	1862.5
22.5°	1750.2	1752.8	1775.1	1795.6	1811.7
25°	1675.2	1688.6	1722.5	1746.6	1758.2
27.5°	1619.0	1638.6	1661.8	1690.4	1713.6
30°	1574.4	1572.6	1588.7	1629.7	1656.5
32.5°	1487.9	1494.1	1511.1	1560.2	1597.6
35°	1400.5	1401.4	1418.3	1482.5	1519.1
37.5°	1299.7	1292.5	1302.4	1371.9	1396.0
40°	1160.5	1162.3	1152.5	1201.6	1198.0
42.5°	998.2	1012.4	961.6	1025.8	1021.4
45°	800.1	865.3	801.9	859.0	824.2
47.5°	631.6	727.9	675.3	717.2	652.1
50°	512.0	611.0	582.5	601.2	496.0
52.5°	420.1	500.4	509.3	513.8	387.1
55°	337.2	410.3	438.9	438.0	302.4
57.5°	248.9	333.6	366.6	380.0	229.3
60°	183.8	277.4	302.4	331.8	172.2
62.5°	148.1	243.5	249.8	290.8	131.1
65°	126.7	224.8	202.5	259.6	101.7
67.5°	112.4	209.6	165.0	231.9	86.5
70°	101.7	186.4	136.5	207.8	81.2
72.5°	99.0	158.8	105.3	185.5	80.3
75°	95.4	134.7	75.8	152.5	79.4
77.5°	82.1	115.1	54.4	117.7	74.0
80°	71.4	91.9	40.1	88.3	65.1
82.5°	55.3	69.6	35.7	66.9	52.6
85°	35.7	52.6	37.5	48.2	36.6
87.5°	16.9	29.4	26.8	25.9	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)