

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: P292605

Luminaire Tested: **22GR-LD5-40-A19/156-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292605
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-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4197.0 lumens
Efficiency: N/A
Efficacy: 124.3 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

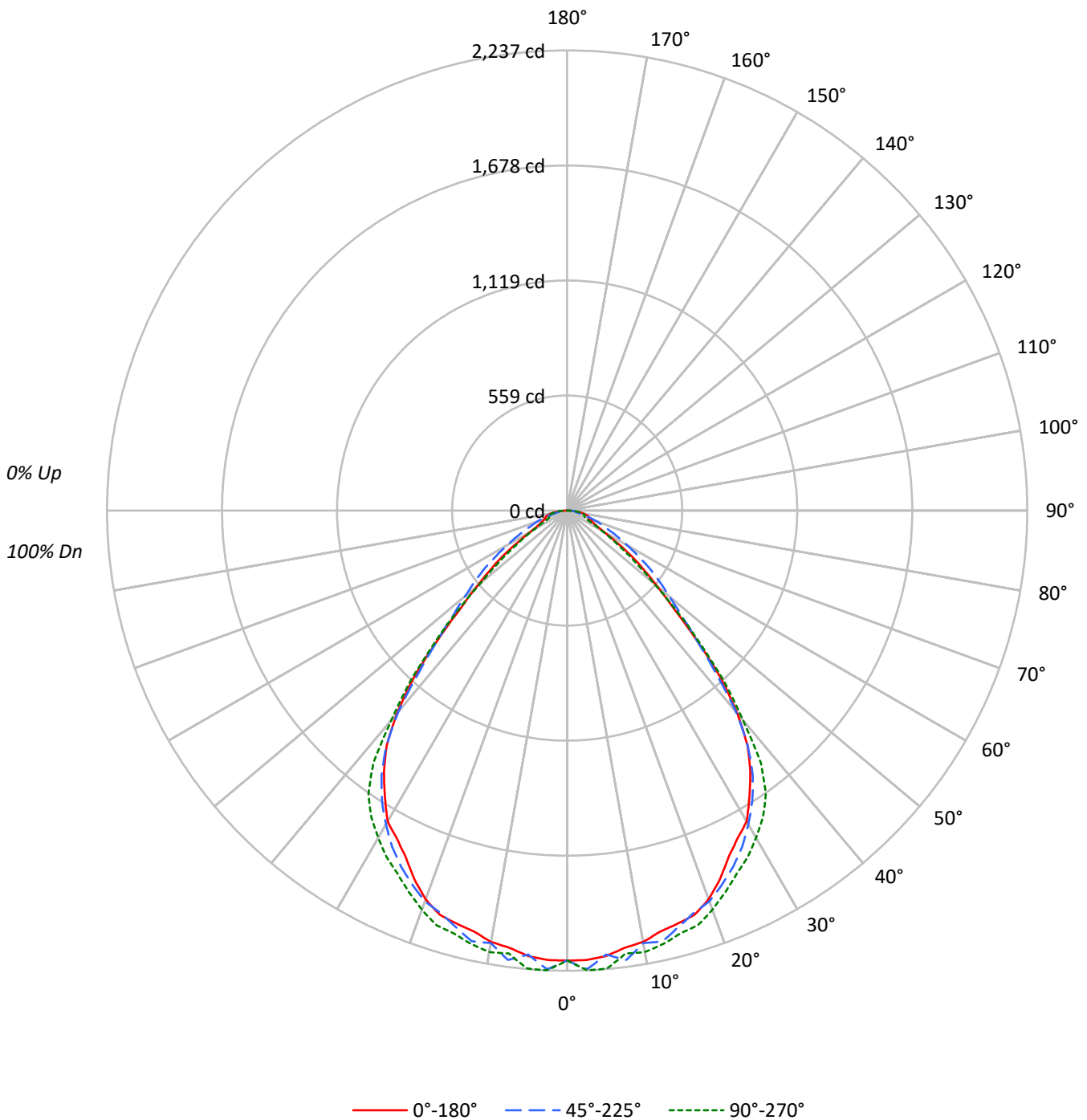
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5886	5886	5886
5°	5871	5853	6037
10°	5817	5834	5955
15°	5791	5835	5928
20°	5760	5788	5913
25°	5514	5670	5787
30°	5423	5473	5706
35°	5100	5165	5532
40°	4519	4488	4665
45°	3376	3383	3477
50°	2376	2703	2302
55°	1754	2282	1573
60°	1096	1804	1027
65°	894	1429	718
70°	887	1190	708
75°	1100	874	915
80°	1226	690	1119
85°	1223	1281	1250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.2	5.0
10°-20°	593.1	14.1
20°-30°	878.4	20.9
30°-40°	983.9	23.4
40°-50°	723.0	17.2
50°-60°	404.1	9.6
60°-70°	225.2	5.4
70°-80°	132.3	3.2
80°-90°	48.6	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°	1679.7	40.0
0°-40°	2663.7	63.5
0°-60°	3790.8	90.3
0°-90°	4197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2187	2187	2187	2187	2187	
5°	2174	2214	2167	2211	2235	206
15°	2079	2091	2094	2126	2128	587
25°	1857	1872	1910	1936	1949	861
35°	1552	1554	1572	1644	1684	962
45°	887	959	889	952	914	693
55°	374	455	486	486	335	334
65°	140	249	224	288	113	145
75°	106	149	84	169	88	106
85°	40	58	42	53	40	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2187.4	2187.4	2187.4	2187.4	2187.4
2.5°	2186.4	2206.1	2231.9	2234.8	2236.8
5°	2173.5	2214.1	2166.6	2211.1	2234.8
7.5°	2143.8	2168.6	2203.2	2158.7	2171.5
10°	2129.0	2135.0	2135.0	2190.3	2179.4
12.5°	2095.4	2135.0	2144.8	2134.0	2157.7
15°	2078.6	2091.4	2094.4	2126.1	2128.0
17.5°	2059.8	2056.8	2049.9	2072.7	2113.2
20°	2011.3	2000.5	2021.2	2048.9	2064.7
22.5°	1940.1	1943.1	1967.8	1990.6	2008.4
25°	1857.1	1871.9	1909.5	1936.2	1949.0
27.5°	1794.8	1816.5	1842.2	1873.9	1899.6
30°	1745.3	1743.4	1761.2	1806.6	1836.3
32.5°	1649.4	1656.3	1675.1	1729.5	1771.0
35°	1552.5	1553.5	1572.3	1643.5	1684.0
37.5°	1440.8	1432.9	1443.7	1520.9	1547.6
40°	1286.5	1288.5	1277.6	1332.0	1328.0
42.5°	1106.5	1122.4	1066.0	1137.2	1132.2
45°	887.0	959.2	889.0	952.3	913.7
47.5°	700.1	806.9	748.6	795.0	722.9
50°	567.6	677.4	645.7	666.5	549.8
52.5°	465.8	554.8	564.6	569.6	429.2
55°	373.8	454.9	486.5	485.5	335.2
57.5°	275.9	369.8	406.4	421.3	254.1
60°	203.7	307.5	335.2	367.9	190.9
62.5°	164.2	270.0	276.9	322.4	145.4
65°	140.4	249.2	224.5	287.8	112.7
67.5°	124.6	232.4	182.9	257.1	95.9
70°	112.7	206.7	151.3	230.4	90.0
72.5°	109.8	176.0	116.7	205.7	89.0
75°	105.8	149.3	84.1	169.1	88.0
77.5°	91.0	127.6	60.3	130.5	82.1
80°	79.1	101.9	44.5	97.9	72.2
82.5°	61.3	77.1	39.6	74.2	58.3
85°	39.6	58.3	41.5	53.4	40.5
87.5°	18.8	32.6	29.7	28.7	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)