

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: P292614

Luminaire Tested: **22GR-LD5-43-A19/156-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292614
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-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: 4481.0 lumens
Efficiency: N/A
Efficacy: 122.0 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

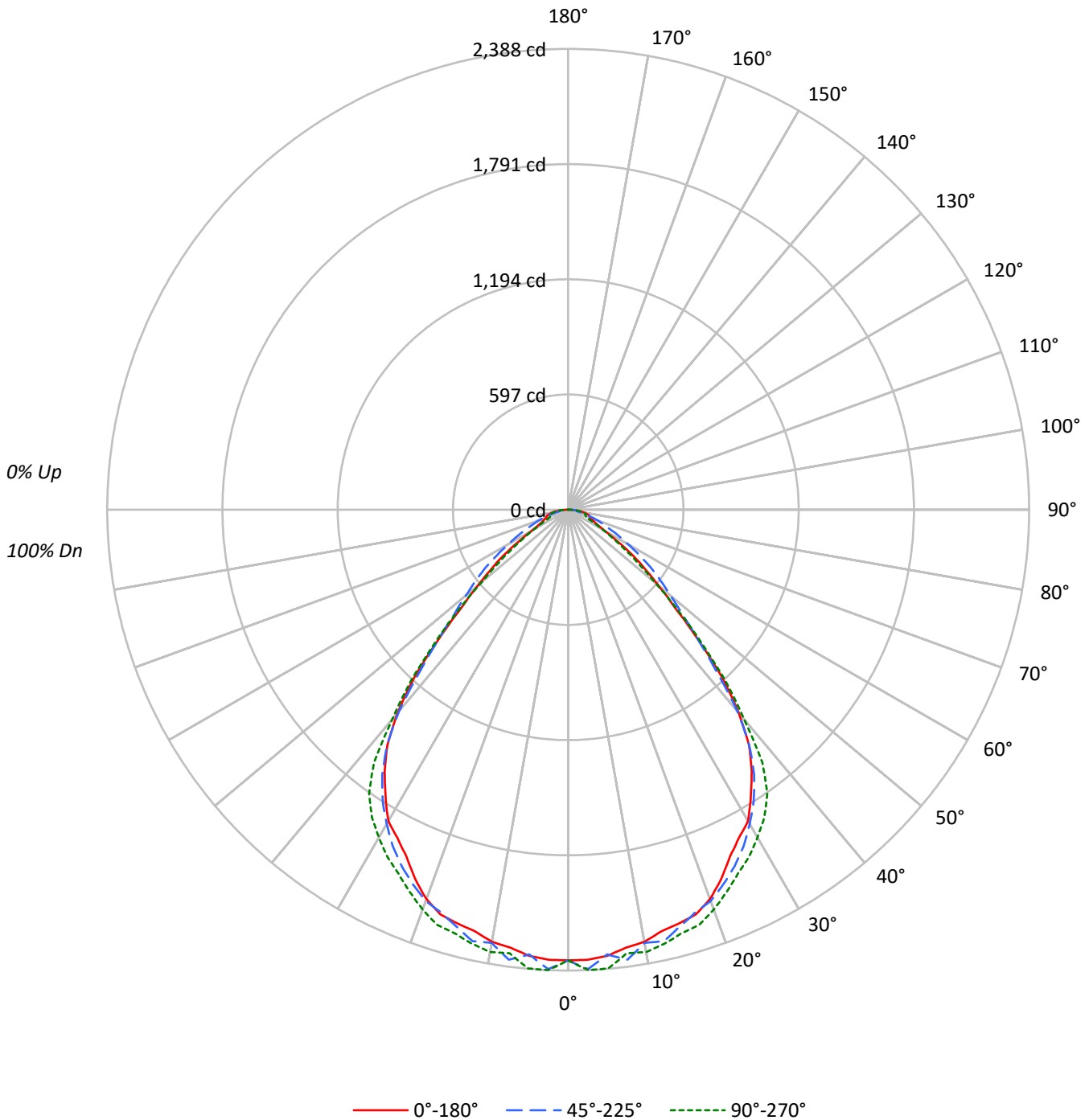
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6285	6285	6285
5°	6269	6249	6445
10°	6211	6228	6358
15°	6182	6230	6330
20°	6149	6180	6313
25°	5887	6053	6179
30°	5790	5843	6092
35°	5445	5515	5907
40°	4825	4792	4981
45°	3604	3612	3712
50°	2537	2886	2457
55°	1872	2437	1679
60°	1171	1926	1097
65°	954	1526	767
70°	947	1271	756
75°	1175	933	977
80°	1309	736	1195
85°	1303	1368	1337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.3	5.0
10°-20°	633.2	14.1
20°-30°	937.9	20.9
30°-40°	1050.5	23.4
40°-50°	771.9	17.2
50°-60°	431.5	9.6
60°-70°	240.5	5.4
70°-80°	141.3	3.2
80°-90°	51.9	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°	1793.4	40.0
0°-40°	2843.9	63.5
0°-60°	4047.3	90.3
0°-90°	4481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4481.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2335	2335	2335	2335	2335	
5°	2321	2364	2313	2361	2386	220
15°	2219	2233	2236	2270	2272	627
25°	1983	1999	2039	2067	2081	919
35°	1658	1659	1679	1755	1798	1027
45°	947	1024	949	1017	976	740
55°	399	486	519	518	358	356
65°	150	266	240	307	120	155
75°	113	159	90	180	94	114
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°	2335.4	2335.4	2335.4	2335.4	2335.4
2.5°	2334.3	2355.4	2382.9	2386.0	2388.2
5°	2320.6	2363.9	2313.2	2360.7	2386.0
7.5°	2288.9	2315.3	2352.3	2304.8	2318.5
10°	2273.1	2279.4	2279.4	2338.5	2326.9
12.5°	2237.2	2279.4	2290.0	2278.4	2303.7
15°	2219.2	2233.0	2236.1	2269.9	2272.0
17.5°	2199.2	2196.0	2188.6	2212.9	2256.2
20°	2147.4	2135.8	2158.0	2187.6	2204.5
22.5°	2071.4	2074.6	2101.0	2125.3	2144.3
25°	1982.7	1998.6	2038.7	2067.2	2080.9
27.5°	1916.2	1939.5	1966.9	2000.7	2028.1
30°	1863.4	1861.3	1880.3	1928.9	1960.6
32.5°	1761.0	1768.4	1788.5	1846.5	1890.9
35°	1657.6	1658.6	1678.7	1754.7	1798.0
37.5°	1538.3	1529.8	1541.4	1623.8	1652.3
40°	1373.6	1375.7	1364.1	1422.1	1417.9
42.5°	1181.4	1198.3	1138.1	1214.1	1208.9
45°	947.0	1024.1	949.1	1016.7	975.5
47.5°	747.5	861.5	799.2	848.8	771.8
50°	606.0	723.2	689.4	711.6	587.0
52.5°	497.3	592.3	602.8	608.1	458.2
55°	399.1	485.7	519.4	518.4	357.9
57.5°	294.6	394.9	433.9	449.8	271.3
60°	217.5	328.3	357.9	392.7	203.8
62.5°	175.3	288.2	295.6	344.2	155.2
65°	149.9	266.1	239.7	307.2	120.4
67.5°	133.0	248.1	195.3	274.5	102.4
70°	120.4	220.7	161.5	246.0	96.1
72.5°	117.2	187.9	124.6	219.6	95.0
75°	113.0	159.4	89.7	180.5	94.0
77.5°	97.1	136.2	64.4	139.4	87.6
80°	84.5	108.7	47.5	104.5	77.1
82.5°	65.5	82.4	42.2	79.2	62.3
85°	42.2	62.3	44.3	57.0	43.3
87.5°	20.1	34.8	31.7	30.6	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)