

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: P292602

Luminaire Tested: **22GR-LD5-40-A19/156-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292602
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-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4135.0 lumens
Efficiency: N/A
Efficacy: 124.9 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

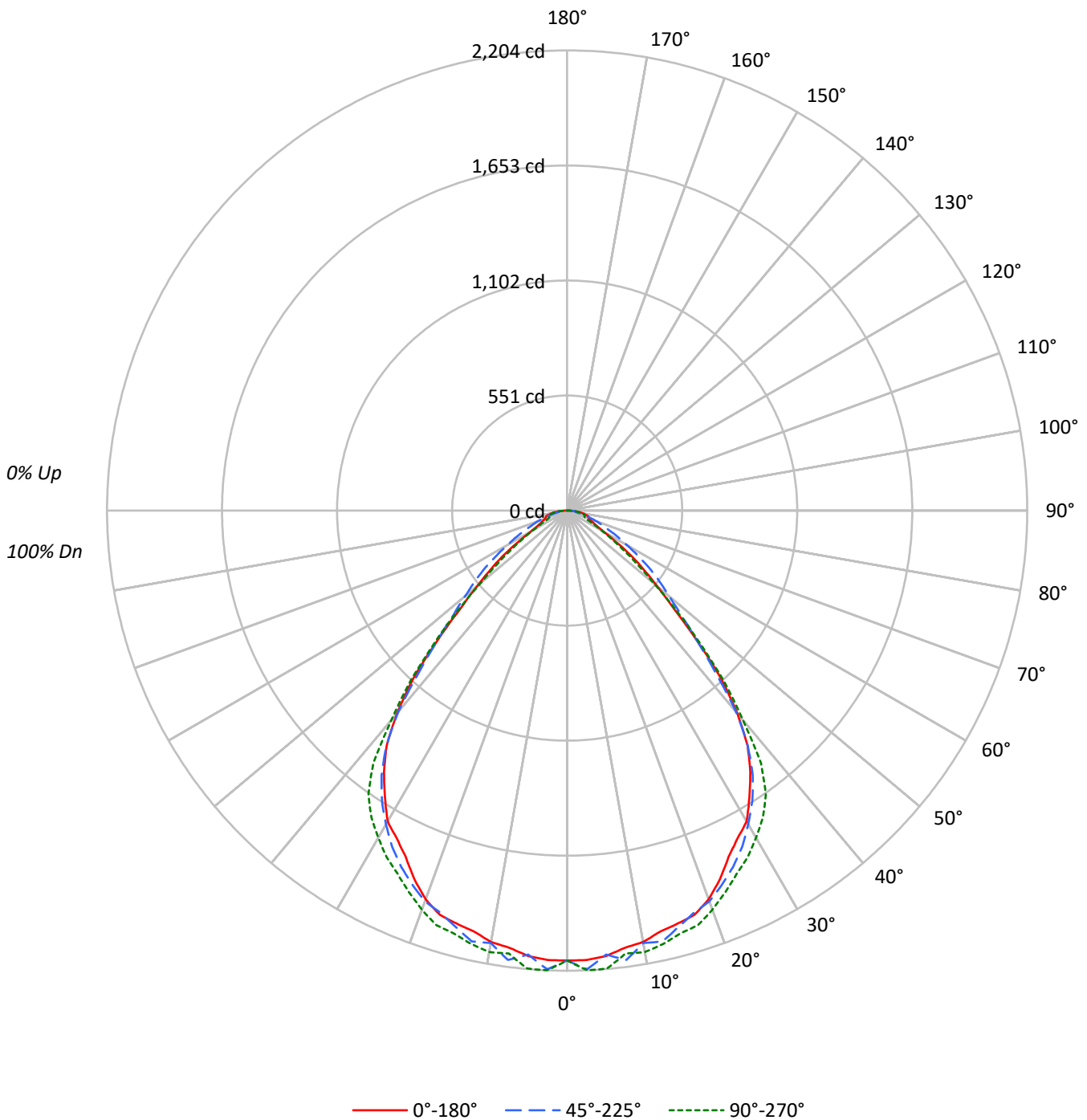
Input Watts (W): 33.108
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
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°	5799	5799	5799
5°	5784	5766	5948
10°	5732	5748	5867
15°	5705	5749	5841
20°	5675	5703	5825
25°	5432	5586	5702
30°	5343	5391	5622
35°	5025	5089	5451
40°	4453	4422	4596
45°	3326	3333	3426
50°	2341	2663	2268
55°	1728	2249	1550
60°	1080	1778	1012
65°	881	1408	707
70°	874	1173	698
75°	1083	861	901
80°	1207	679	1102
85°	1204	1263	1232



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.1	5.0
10°-20°	584.3	14.1
20°-30°	865.4	20.9
30°-40°	969.4	23.4
40°-50°	712.3	17.2
50°-60°	398.2	9.6
60°-70°	221.9	5.4
70°-80°	130.4	3.2
80°-90°	47.9	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°	1654.9	40.0
0°-40°	2624.3	63.5
0°-60°	3734.8	90.3
0°-90°	4135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4135.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2155	2155	2155	2155	2155	
5°	2141	2181	2135	2178	2202	203
15°	2048	2060	2064	2095	2097	578
25°	1830	1844	1881	1908	1920	848
35°	1530	1531	1549	1619	1659	948
45°	874	945	876	938	900	683
55°	368	448	479	478	330	329
65°	138	246	221	284	111	143
75°	104	147	83	167	87	105
85°	39	58	41	53	40	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2155.0	2155.0	2155.0	2155.0	2155.0
2.5°	2154.1	2173.6	2198.9	2201.8	2203.8
5°	2141.4	2181.4	2134.6	2178.4	2201.8
7.5°	2112.2	2136.5	2170.6	2126.8	2139.5
10°	2097.6	2103.4	2103.4	2158.0	2147.3
12.5°	2064.4	2103.4	2113.2	2102.4	2125.8
15°	2047.9	2060.5	2063.5	2094.6	2096.6
17.5°	2029.4	2026.4	2019.6	2042.0	2082.0
20°	1981.6	1970.9	1991.4	2018.7	2034.2
22.5°	1911.5	1914.4	1938.8	1961.2	1978.7
25°	1829.6	1844.3	1881.3	1907.6	1920.3
27.5°	1768.3	1789.7	1815.0	1846.2	1871.5
30°	1719.6	1717.6	1735.1	1780.0	1809.2
32.5°	1625.1	1631.9	1650.4	1704.0	1744.9
35°	1529.6	1530.6	1549.1	1619.2	1659.2
37.5°	1419.5	1411.7	1422.4	1498.4	1524.7
40°	1267.5	1269.5	1258.7	1312.3	1308.4
42.5°	1090.2	1105.8	1050.2	1120.4	1115.5
45°	873.9	945.0	875.9	938.2	900.2
47.5°	689.8	795.0	737.5	783.3	712.2
50°	559.2	667.4	636.2	656.6	541.7
52.5°	458.9	546.6	556.3	561.2	422.8
55°	368.3	448.2	479.3	478.4	330.3
57.5°	271.8	364.4	400.4	415.0	250.4
60°	200.7	303.0	330.3	362.4	188.0
62.5°	161.7	266.0	272.8	317.6	143.2
65°	138.3	245.5	221.2	283.5	111.1
67.5°	122.8	228.9	180.2	253.3	94.5
70°	111.1	203.6	149.1	227.0	88.7
72.5°	108.1	173.4	115.0	202.6	87.7
75°	104.2	147.1	82.8	166.6	86.7
77.5°	89.6	125.7	59.4	128.6	80.9
80°	77.9	100.3	43.8	96.5	71.1
82.5°	60.4	76.0	39.0	73.1	57.5
85°	39.0	57.5	40.9	52.6	39.9
87.5°	18.5	32.2	29.2	28.3	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)