

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: P292662

Luminaire Tested: **22GR-LD5-24-A19/156-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292662
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-LD5-24-A19/156-UNV-L92765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2122.0 lumens
Efficiency: N/A
Efficacy: 115.8 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

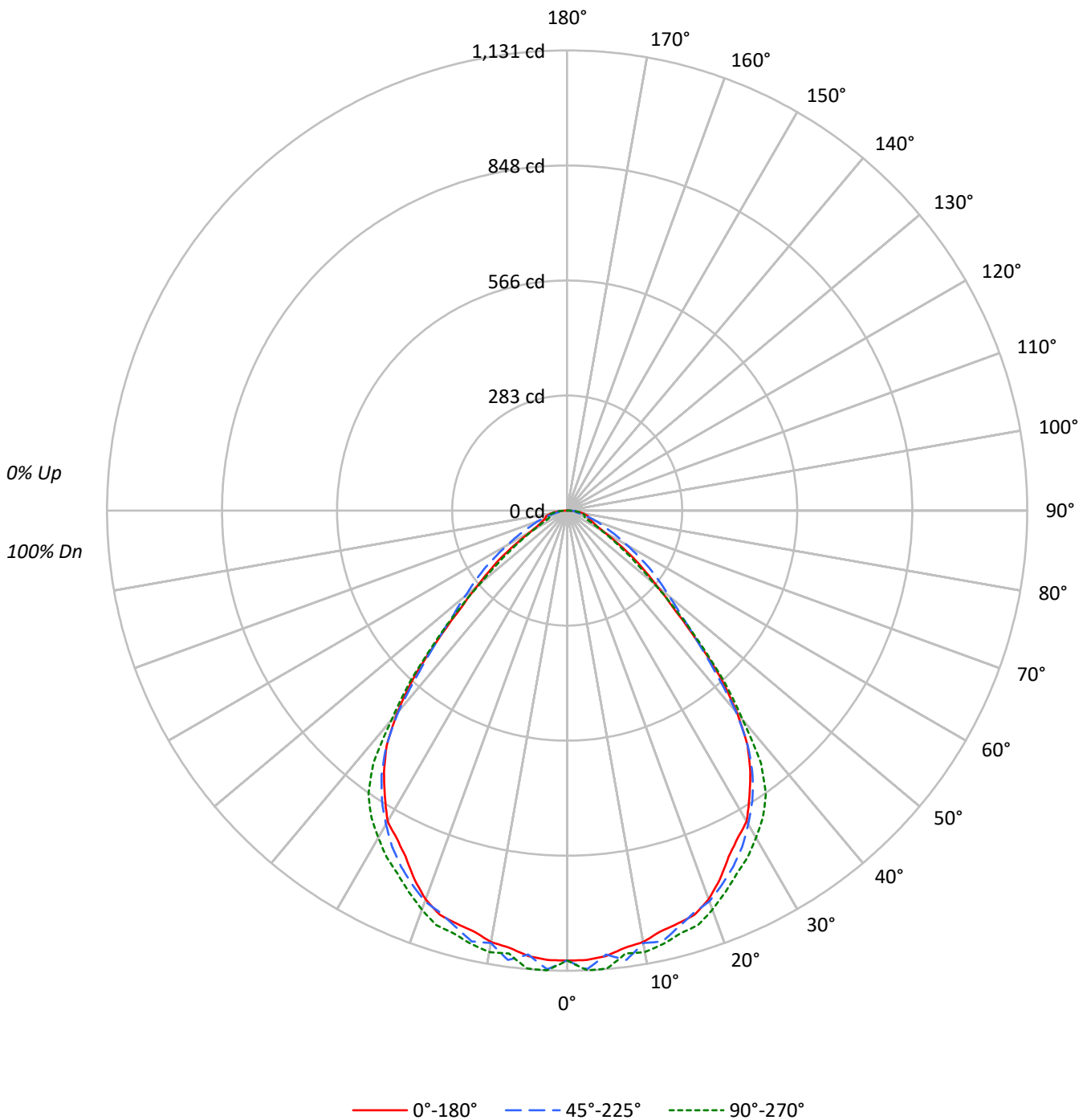
Input Watts (W): 18.321
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2976	2976	2976
5°	2968	2959	3052
10°	2941	2949	3011
15°	2928	2950	2997
20°	2912	2926	2989
25°	2788	2866	2926
30°	2742	2767	2885
35°	2578	2611	2797
40°	2285	2269	2359
45°	1707	1711	1758
50°	1202	1367	1164
55°	887	1154	795
60°	554	912	519
65°	452	723	363
70°	448	602	358
75°	556	442	463
80°	620	349	566
85°	618	648	633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	5.0
10°-20°	299.9	14.1
20°-30°	444.1	20.9
30°-40°	497.5	23.4
40°-50°	365.6	17.2
50°-60°	204.3	9.6
60°-70°	113.9	5.4
70°-80°	66.9	3.2
80°-90°	24.6	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°	849.2	40.0
0°-40°	1346.7	63.5
0°-60°	1916.6	90.3
0°-90°	2122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1099	1119	1095	1118	1130	104
15°	1051	1057	1059	1075	1076	297
25°	939	946	965	979	985	435
35°	785	785	795	831	851	486
45°	448	485	450	482	462	350
55°	189	230	246	246	170	169
65°	71	126	114	146	57	73
75°	54	76	42	86	44	54
85°	20	30	21	27	20	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1105.9	1105.9	1105.9	1105.9	1105.9
2.5°	1105.4	1115.4	1128.4	1129.9	1130.9
5°	1098.9	1119.4	1095.4	1117.9	1129.9
7.5°	1083.9	1096.4	1113.9	1091.4	1097.9
10°	1076.4	1079.4	1079.4	1107.4	1101.9
12.5°	1059.4	1079.4	1084.4	1078.9	1090.9
15°	1050.9	1057.4	1058.9	1074.9	1075.9
17.5°	1041.4	1039.9	1036.4	1047.9	1068.4
20°	1016.9	1011.4	1021.9	1035.9	1043.9
22.5°	980.9	982.4	994.9	1006.4	1015.4
25°	938.9	946.4	965.4	978.9	985.4
27.5°	907.4	918.4	931.4	947.4	960.4
30°	882.4	881.4	890.4	913.4	928.4
32.5°	833.9	837.4	846.9	874.4	895.4
35°	784.9	785.4	794.9	830.9	851.4
37.5°	728.5	724.5	730.0	768.9	782.4
40°	650.5	651.5	646.0	673.5	671.5
42.5°	559.5	567.5	539.0	575.0	572.5
45°	448.5	485.0	449.5	481.5	462.0
47.5°	354.0	408.0	378.5	402.0	365.5
50°	287.0	342.5	326.5	337.0	278.0
52.5°	235.5	280.5	285.5	288.0	217.0
55°	189.0	230.0	246.0	245.5	169.5
57.5°	139.5	187.0	205.5	213.0	128.5
60°	103.0	155.5	169.5	186.0	96.5
62.5°	83.0	136.5	140.0	163.0	73.5
65°	71.0	126.0	113.5	145.5	57.0
67.5°	63.0	117.5	92.5	130.0	48.5
70°	57.0	104.5	76.5	116.5	45.5
72.5°	55.5	89.0	59.0	104.0	45.0
75°	53.5	75.5	42.5	85.5	44.5
77.5°	46.0	64.5	30.5	66.0	41.5
80°	40.0	51.5	22.5	49.5	36.5
82.5°	31.0	39.0	20.0	37.5	29.5
85°	20.0	29.5	21.0	27.0	20.5
87.5°	9.5	16.5	15.0	14.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)