

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: P292665

Luminaire Tested: **22GR-LD5-24-A19/156-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292665
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-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2255.0 lumens
Efficiency: N/A
Efficacy: 121.2 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

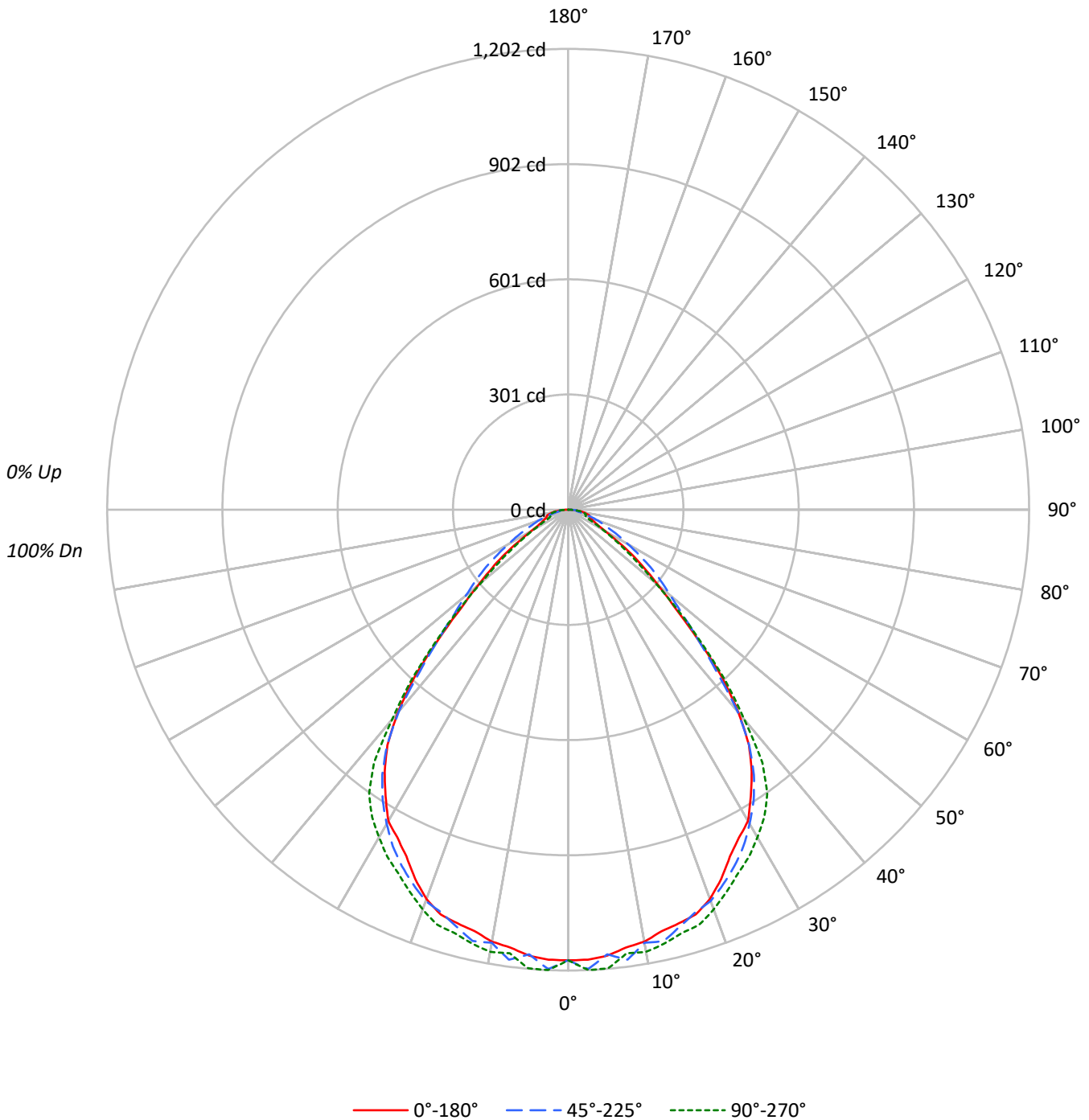
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3162	3162	3162
5°	3155	3145	3243
10°	3126	3134	3200
15°	3111	3135	3185
20°	3095	3110	3177
25°	2963	3046	3109
30°	2914	2940	3066
35°	2740	2775	2972
40°	2428	2411	2506
45°	1814	1818	1868
50°	1277	1452	1237
55°	942	1226	845
60°	589	969	552
65°	480	768	386
70°	477	640	380
75°	591	470	492
80°	659	370	601
85°	658	689	673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	5.0
10°-20°	318.7	14.1
20°-30°	472.0	20.9
30°-40°	528.7	23.4
40°-50°	388.4	17.2
50°-60°	217.1	9.6
60°-70°	121.0	5.4
70°-80°	71.1	3.2
80°-90°	26.1	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°	902.5	40.0
0°-40°	1431.2	63.5
0°-60°	2036.7	90.3
0°-90°	2255.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2255.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1168	1190	1164	1188	1201	111
15°	1117	1124	1125	1142	1143	315
25°	998	1006	1026	1040	1047	462
35°	834	835	845	883	905	517
45°	477	515	478	512	491	372
55°	201	244	261	261	180	179
65°	75	134	121	155	61	78
75°	57	80	45	91	47	57
85°	21	31	22	29	22	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1175.2	1175.2	1175.2	1175.2	1175.2
2.5°	1174.7	1185.3	1199.2	1200.7	1201.8
5°	1167.8	1189.6	1164.1	1188.0	1200.7
7.5°	1151.9	1165.1	1183.7	1159.8	1166.7
10°	1143.9	1147.1	1147.1	1176.8	1171.0
12.5°	1125.8	1147.1	1152.4	1146.6	1159.3
15°	1116.8	1123.7	1125.3	1142.3	1143.4
17.5°	1106.7	1105.1	1101.4	1113.6	1135.4
20°	1080.7	1074.8	1086.0	1100.9	1109.4
22.5°	1042.4	1044.0	1057.3	1069.5	1079.1
25°	997.8	1005.8	1025.9	1040.3	1047.2
27.5°	964.3	976.0	989.8	1006.8	1020.6
30°	937.8	936.7	946.3	970.7	986.6
32.5°	886.2	889.9	900.0	929.2	951.6
35°	834.1	834.7	844.8	883.0	904.8
37.5°	774.1	769.9	775.7	817.1	831.5
40°	691.2	692.3	686.4	715.7	713.5
42.5°	594.5	603.0	572.7	611.0	608.3
45°	476.6	515.4	477.6	511.6	490.9
47.5°	376.2	433.5	402.2	427.2	388.4
50°	305.0	363.9	346.9	358.1	295.4
52.5°	250.2	298.1	303.4	306.0	230.6
55°	200.8	244.4	261.4	260.9	180.1
57.5°	148.2	198.7	218.4	226.3	136.5
60°	109.4	165.2	180.1	197.6	102.5
62.5°	88.2	145.0	148.8	173.2	78.1
65°	75.4	133.9	120.6	154.6	60.6
67.5°	66.9	124.9	98.3	138.1	51.5
70°	60.6	111.0	81.3	123.8	48.3
72.5°	59.0	94.6	62.7	110.5	47.8
75°	56.8	80.2	45.2	90.9	47.3
77.5°	48.9	68.5	32.4	70.1	44.1
80°	42.5	54.7	23.9	52.6	38.8
82.5°	32.9	41.4	21.3	39.8	31.3
85°	21.3	31.3	22.3	28.7	21.8
87.5°	10.1	17.5	15.9	15.4	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)