

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: P292562

Luminaire Tested: **22GR-LD5-24-A19/156-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292562
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-L82765-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2268.0 lumens
Efficiency: N/A
Efficacy: 125.7 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

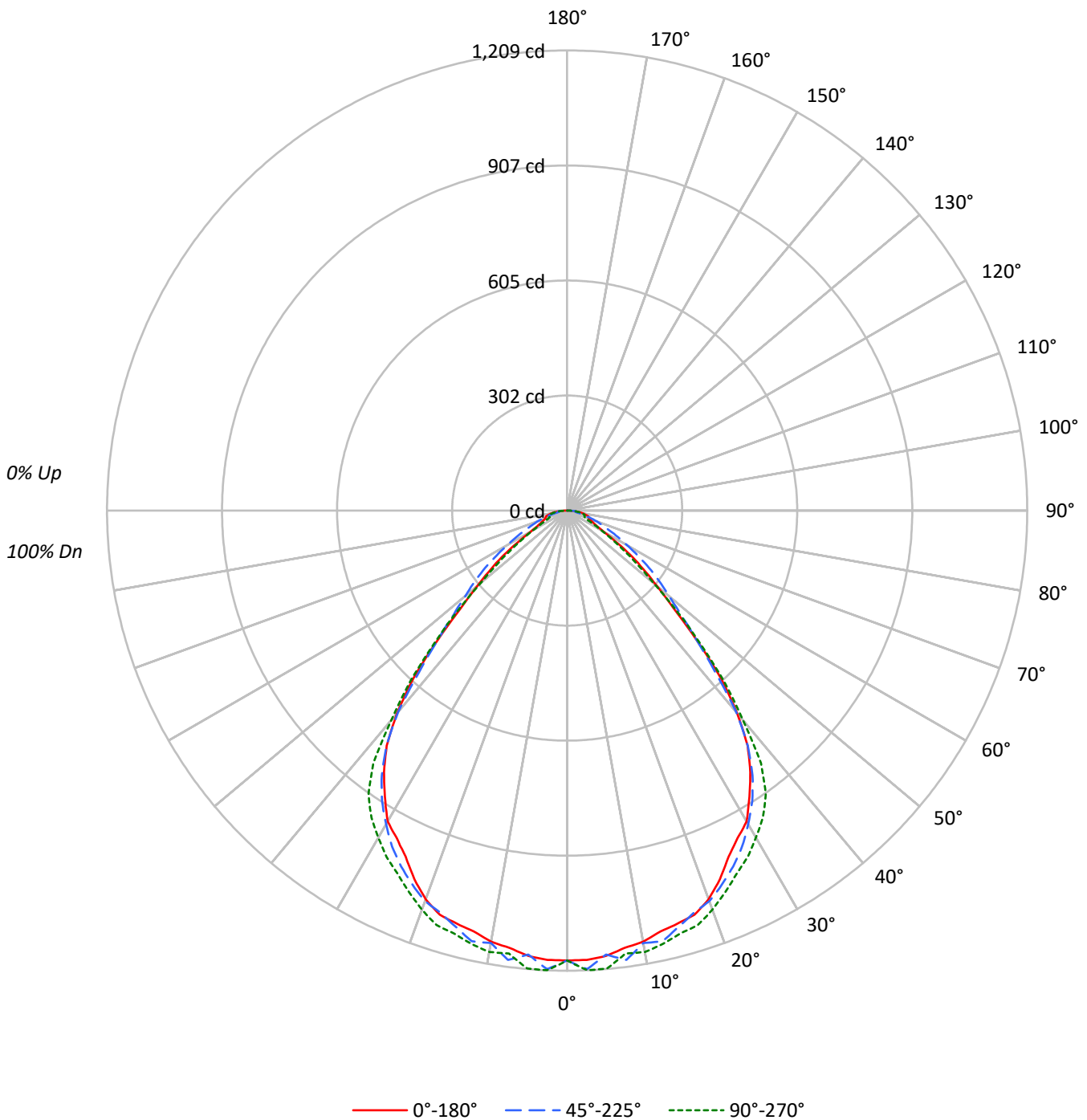
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3181	3181	3181
5°	3173	3163	3262
10°	3144	3152	3218
15°	3129	3153	3204
20°	3113	3128	3195
25°	2980	3064	3127
30°	2931	2957	3083
35°	2756	2791	2989
40°	2442	2425	2521
45°	1824	1828	1879
50°	1284	1461	1244
55°	948	1233	850
60°	593	975	555
65°	483	772	388
70°	479	644	382
75°	595	472	495
80°	662	372	604
85°	661	692	676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	5.0
10°-20°	320.5	14.1
20°-30°	474.7	20.9
30°-40°	531.7	23.4
40°-50°	390.7	17.2
50°-60°	218.4	9.6
60°-70°	121.7	5.4
70°-80°	71.5	3.2
80°-90°	26.3	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°	907.7	40.0
0°-40°	1439.4	63.5
0°-60°	2048.5	90.3
0°-90°	2268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1174	1196	1171	1195	1208	111
15°	1123	1130	1132	1149	1150	317
25°	1004	1012	1032	1046	1053	465
35°	839	840	850	888	910	520
45°	479	518	480	515	494	374
55°	202	246	263	262	181	180
65°	76	135	121	156	61	78
75°	57	81	45	91	48	57
85°	21	32	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°	1182.0	1182.0	1182.0	1182.0	1182.0
2.5°	1181.5	1192.2	1206.1	1207.7	1208.7
5°	1174.5	1196.4	1170.8	1194.8	1207.7
7.5°	1158.5	1171.9	1190.6	1166.5	1173.5
10°	1150.5	1153.7	1153.7	1183.6	1177.7
12.5°	1132.3	1153.7	1159.0	1153.2	1166.0
15°	1123.2	1130.2	1131.8	1148.9	1150.0
17.5°	1113.1	1111.5	1107.7	1120.0	1141.9
20°	1086.9	1081.0	1092.2	1107.2	1115.8
22.5°	1048.4	1050.0	1063.4	1075.7	1085.3
25°	1003.5	1011.6	1031.9	1046.3	1053.2
27.5°	969.9	981.6	995.5	1012.6	1026.5
30°	943.2	942.1	951.7	976.3	992.3
32.5°	891.3	895.1	905.2	934.6	957.1
35°	839.0	839.5	849.6	888.1	910.0
37.5°	778.6	774.3	780.2	821.9	836.3
40°	695.2	696.3	690.4	719.8	717.7
42.5°	598.0	606.5	576.0	614.5	611.8
45°	479.3	518.3	480.4	514.6	493.8
47.5°	378.3	436.0	404.5	429.6	390.6
50°	306.7	366.0	348.9	360.2	297.1
52.5°	251.7	299.8	305.1	307.8	231.9
55°	202.0	245.8	262.9	262.4	181.2
57.5°	149.1	199.9	219.6	227.6	137.3
60°	110.1	166.2	181.2	198.8	103.1
62.5°	88.7	145.9	149.6	174.2	78.6
65°	75.9	134.7	121.3	155.5	60.9
67.5°	67.3	125.6	98.9	138.9	51.8
70°	60.9	111.7	81.8	124.5	48.6
72.5°	59.3	95.1	63.1	111.1	48.1
75°	57.2	80.7	45.4	91.4	47.6
77.5°	49.2	68.9	32.6	70.5	44.4
80°	42.7	55.0	24.0	52.9	39.0
82.5°	33.1	41.7	21.4	40.1	31.5
85°	21.4	31.5	22.4	28.9	21.9
87.5°	10.2	17.6	16.0	15.5	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)