

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: P292666

Luminaire Tested: **22GR-LD5-24-A19/156-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292666
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-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2265.0 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

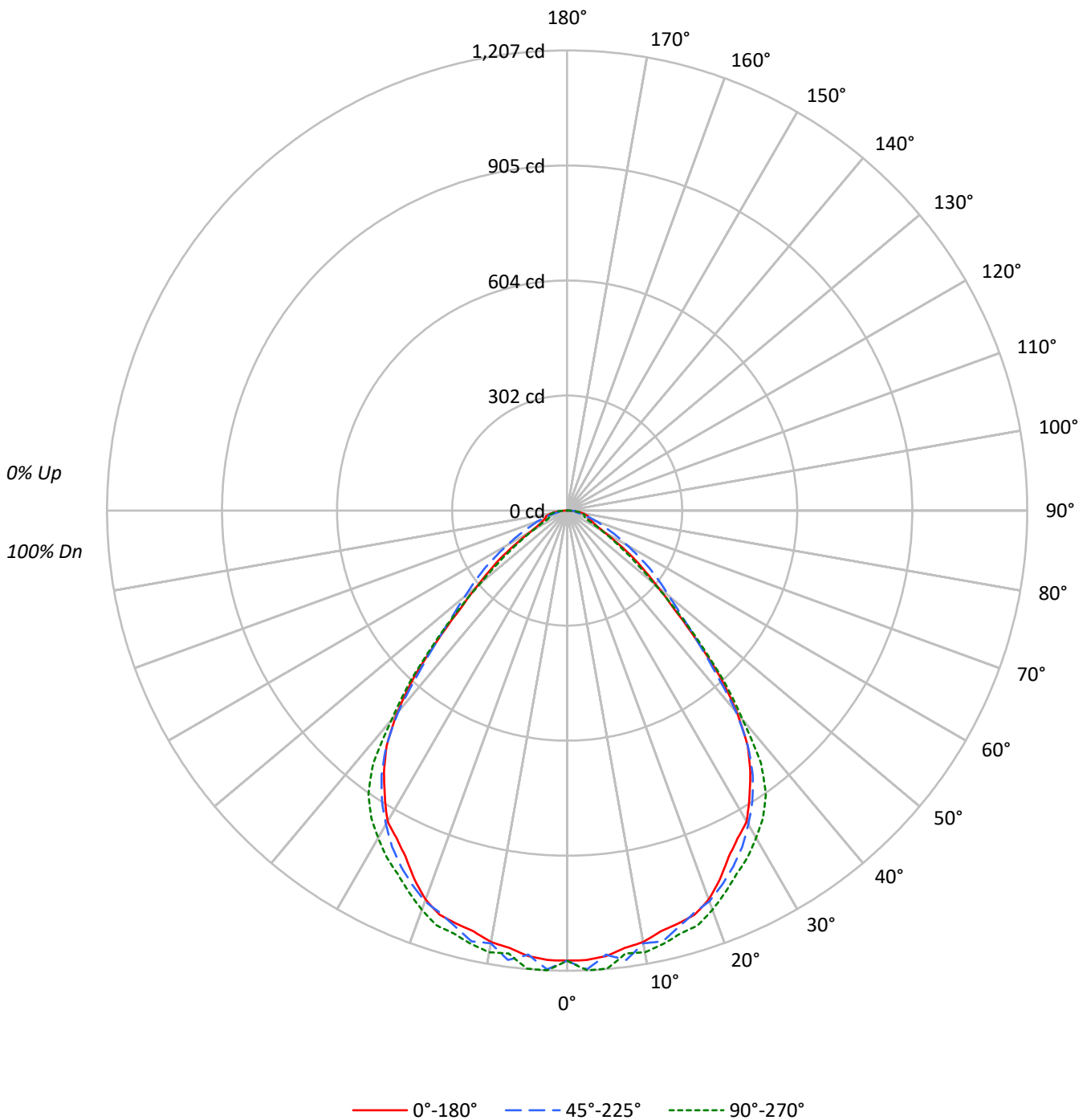
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	3177	3177	3177
5°	3169	3158	3258
10°	3140	3148	3214
15°	3125	3149	3199
20°	3109	3124	3191
25°	2976	3060	3123
30°	2927	2953	3079
35°	2752	2787	2985
40°	2439	2422	2518
45°	1822	1826	1877
50°	1282	1459	1242
55°	946	1232	849
60°	591	974	554
65°	483	771	387
70°	478	642	382
75°	594	472	494
80°	662	372	604
85°	658	692	676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.4	5.0
10°-20°	320.1	14.1
20°-30°	474.1	20.9
30°-40°	531.0	23.4
40°-50°	390.2	17.2
50°-60°	218.1	9.6
60°-70°	121.5	5.4
70°-80°	71.4	3.2
80°-90°	26.2	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°	906.5	40.0
0°-40°	1437.5	63.5
0°-60°	2045.8	90.3
0°-90°	2265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1173	1195	1169	1193	1206	111
15°	1122	1129	1130	1147	1148	317
25°	1002	1010	1030	1045	1052	464
35°	838	838	848	887	909	519
45°	479	518	480	514	493	374
55°	202	246	263	262	181	180
65°	76	134	121	155	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°	1180.5	1180.5	1180.5	1180.5	1180.5
2.5°	1179.9	1190.6	1204.5	1206.1	1207.1
5°	1173.0	1194.9	1169.2	1193.3	1206.1
7.5°	1157.0	1170.3	1189.0	1165.0	1171.9
10°	1149.0	1152.2	1152.2	1182.1	1176.2
12.5°	1130.8	1152.2	1157.5	1151.6	1164.4
15°	1121.8	1128.7	1130.3	1147.4	1148.4
17.5°	1111.6	1110.0	1106.3	1118.6	1140.4
20°	1085.5	1079.6	1090.8	1105.7	1114.3
22.5°	1047.0	1048.6	1062.0	1074.3	1083.9
25°	1002.2	1010.2	1030.5	1044.9	1051.8
27.5°	968.6	980.3	994.2	1011.3	1025.2
30°	941.9	940.8	950.4	975.0	991.0
32.5°	890.1	893.9	904.0	933.4	955.8
35°	837.8	838.4	848.5	886.9	908.8
37.5°	777.5	773.3	779.1	820.8	835.2
40°	694.3	695.4	689.5	718.8	716.7
42.5°	597.2	605.7	575.3	613.7	611.0
45°	478.7	517.6	479.8	513.9	493.1
47.5°	377.8	435.5	404.0	429.1	390.1
50°	306.3	365.6	348.5	359.7	296.7
52.5°	251.4	299.4	304.7	307.4	231.6
55°	201.7	245.5	262.6	262.0	180.9
57.5°	148.9	199.6	219.3	227.3	137.2
60°	109.9	166.0	180.9	198.5	103.0
62.5°	88.6	145.7	149.4	174.0	78.4
65°	75.8	134.5	121.1	155.3	60.8
67.5°	67.2	125.4	98.7	138.8	51.8
70°	60.8	111.5	81.6	124.3	48.6
72.5°	59.2	95.0	63.0	111.0	48.0
75°	57.1	80.6	45.4	91.3	47.5
77.5°	49.1	68.8	32.6	70.4	44.3
80°	42.7	55.0	24.0	52.8	39.0
82.5°	33.1	41.6	21.3	40.0	31.5
85°	21.3	31.5	22.4	28.8	21.9
87.5°	10.1	17.6	16.0	15.5	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)