

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: P292569

Luminaire Tested: **22GR-LD5-24-A19/156-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292569
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-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2511.0 lumens
Efficiency: N/A
Efficacy: 132.4 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

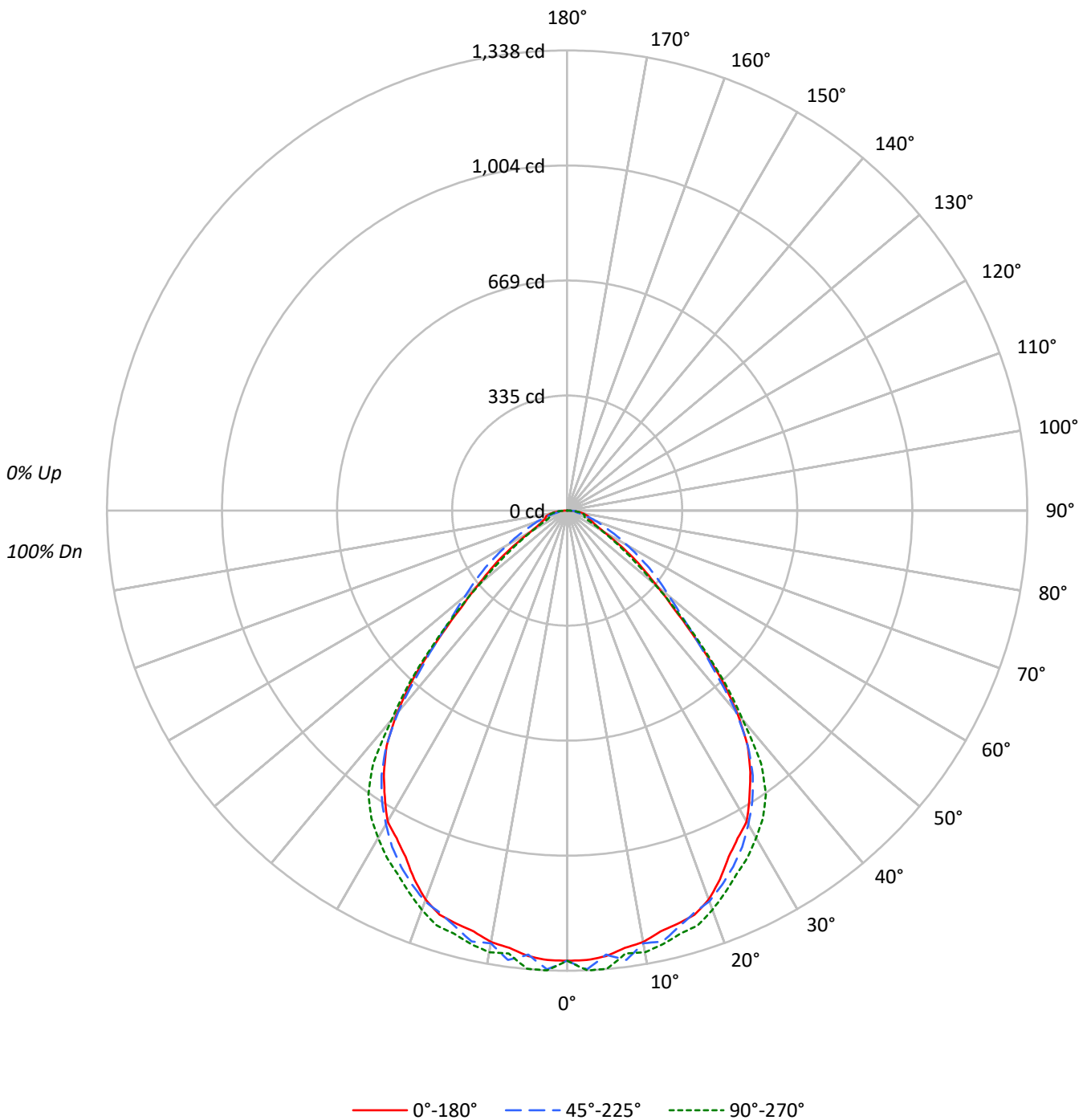
Input Watts (W): 18.972
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3522	3522	3522
5°	3513	3501	3612
10°	3481	3490	3563
15°	3465	3491	3547
20°	3446	3463	3538
25°	3299	3392	3462
30°	3245	3274	3414
35°	3051	3090	3310
40°	2704	2685	2791
45°	2020	2024	2081
50°	1422	1617	1377
55°	1049	1366	941
60°	656	1080	615
65°	535	855	429
70°	530	712	423
75°	658	523	548
80°	733	412	669
85°	732	766	750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.6	5.0
10°-20°	354.8	14.1
20°-30°	525.5	20.9
30°-40°	588.7	23.4
40°-50°	432.6	17.2
50°-60°	241.8	9.6
60°-70°	134.8	5.4
70°-80°	79.2	3.2
80°-90°	29.1	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°	1005.0	40.0
0°-40°	1593.6	63.5
0°-60°	2268.0	90.3
0°-90°	2511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2511.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1309	1309	1309	1309	1309	
5°	1300	1325	1296	1323	1337	123
15°	1244	1251	1253	1272	1273	351
25°	1111	1120	1142	1158	1166	515
35°	929	929	941	983	1008	575
45°	531	574	532	570	547	415
55°	224	272	291	290	201	200
65°	84	149	134	172	67	87
75°	63	89	50	101	53	64
85°	24	35	25	32	24	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1308.7	1308.7	1308.7	1308.7	1308.7
2.5°	1308.1	1319.9	1335.3	1337.1	1338.2
5°	1300.4	1324.6	1296.2	1322.9	1337.1
7.5°	1282.6	1297.4	1318.1	1291.5	1299.2
10°	1273.8	1277.3	1277.3	1310.4	1303.9
12.5°	1253.6	1277.3	1283.2	1276.7	1290.9
15°	1243.6	1251.3	1253.1	1272.0	1273.2
17.5°	1232.3	1230.6	1226.4	1240.0	1264.3
20°	1203.4	1196.8	1209.3	1225.8	1235.3
22.5°	1160.8	1162.5	1177.3	1190.9	1201.6
25°	1111.1	1119.9	1142.4	1158.4	1166.1
27.5°	1073.8	1086.8	1102.2	1121.1	1136.5
30°	1044.2	1043.0	1053.7	1080.9	1098.6
32.5°	986.8	991.0	1002.2	1034.7	1059.6
35°	928.8	929.4	940.7	983.3	1007.5
37.5°	862.0	857.3	863.8	909.9	925.9
40°	769.7	770.9	764.4	796.9	794.5
42.5°	662.0	671.5	637.8	680.4	677.4
45°	530.7	573.9	531.9	569.7	546.7
47.5°	418.9	482.8	447.9	475.7	432.5
50°	339.6	405.3	386.3	398.8	328.9
52.5°	278.7	331.9	337.8	340.8	256.8
55°	223.6	272.1	291.1	290.5	200.6
57.5°	165.1	221.3	243.2	252.0	152.0
60°	121.9	184.0	200.6	220.1	114.2
62.5°	98.2	161.5	165.7	192.9	87.0
65°	84.0	149.1	134.3	172.2	67.4
67.5°	74.5	139.0	109.4	153.8	57.4
70°	67.4	123.6	90.5	137.8	53.8
72.5°	65.7	105.3	69.8	123.1	53.2
75°	63.3	89.3	50.3	101.2	52.7
77.5°	54.4	76.3	36.1	78.1	49.1
80°	47.3	60.9	26.6	58.6	43.2
82.5°	36.7	46.1	23.7	44.4	34.9
85°	23.7	34.9	24.8	31.9	24.3
87.5°	11.2	19.5	17.7	17.2	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)