

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: P292570

Luminaire Tested: **22GR-LD5-28-A19/156-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292570
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-LD5-28-A19/156-UNV-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2637.0 lumens
Efficiency: N/A
Efficacy: 119.6 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

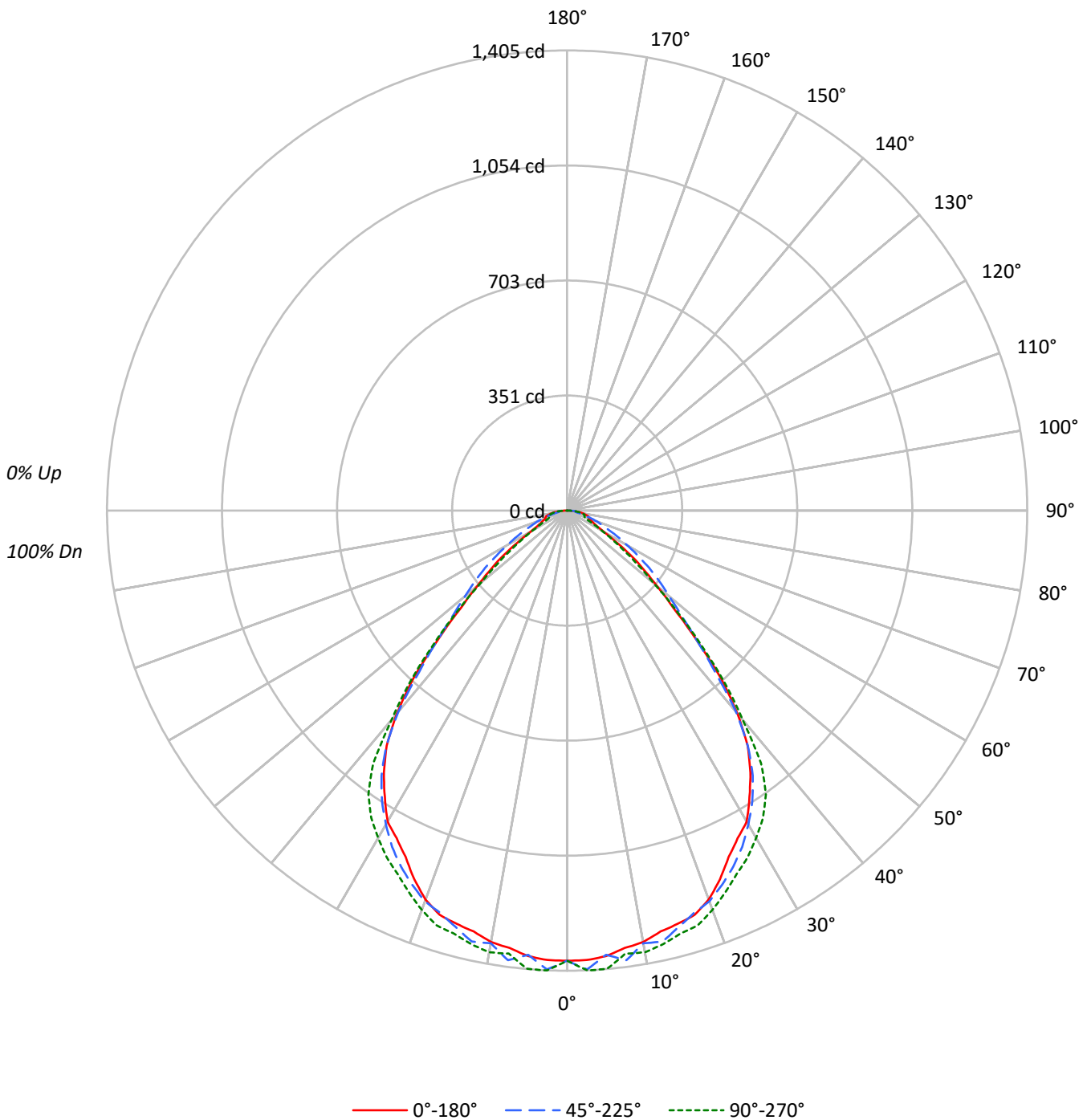
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3698	3698	3698
5°	3689	3677	3793
10°	3655	3665	3742
15°	3638	3666	3725
20°	3619	3637	3715
25°	3464	3562	3636
30°	3407	3438	3585
35°	3205	3245	3476
40°	2839	2820	2931
45°	2121	2126	2185
50°	1493	1698	1446
55°	1102	1434	988
60°	689	1133	645
65°	562	898	451
70°	557	748	445
75°	691	549	575
80°	770	434	704
85°	769	806	787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	5.0
10°-20°	372.6	14.1
20°-30°	551.9	20.9
30°-40°	618.2	23.4
40°-50°	454.3	17.2
50°-60°	253.9	9.6
60°-70°	141.5	5.4
70°-80°	83.1	3.2
80°-90°	30.6	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°	1055.4	40.0
0°-40°	1673.6	63.5
0°-60°	2381.8	90.3
0°-90°	2637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2637.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1366	1391	1361	1389	1404	129
15°	1306	1314	1316	1336	1337	369
25°	1167	1176	1200	1216	1225	541
35°	976	976	988	1033	1058	604
45°	557	603	559	598	574	435
55°	235	286	306	305	211	210
65°	88	157	141	181	71	91
75°	66	94	53	106	55	67
85°	25	37	26	34	26	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.3	1374.3	1374.3	1374.3	1374.3
2.5°	1373.7	1386.1	1402.3	1404.2	1405.4
5°	1365.6	1391.1	1361.3	1389.2	1404.2
7.5°	1347.0	1362.5	1384.3	1356.3	1364.4
10°	1337.7	1341.4	1341.4	1376.2	1369.4
12.5°	1316.5	1341.4	1347.6	1340.8	1355.7
15°	1306.0	1314.1	1315.9	1335.8	1337.1
17.5°	1294.2	1292.3	1288.0	1302.3	1327.7
20°	1263.7	1256.9	1270.0	1287.3	1297.3
22.5°	1219.0	1220.9	1236.4	1250.7	1261.9
25°	1166.8	1176.1	1199.7	1216.5	1224.6
27.5°	1127.7	1141.3	1157.5	1177.4	1193.5
30°	1096.6	1095.4	1106.5	1135.1	1153.8
32.5°	1036.3	1040.7	1052.5	1086.7	1112.8
35°	975.5	976.1	987.9	1032.6	1058.1
37.5°	905.2	900.3	907.1	955.6	972.3
40°	808.3	809.6	802.7	836.9	834.4
42.5°	695.2	705.2	669.8	714.5	711.4
45°	557.3	602.7	558.6	598.3	574.1
47.5°	439.9	507.0	470.3	499.5	454.2
50°	356.6	425.6	405.7	418.8	345.4
52.5°	292.6	348.6	354.8	357.9	269.6
55°	234.9	285.8	305.7	305.1	210.6
57.5°	173.3	232.4	255.4	264.7	159.7
60°	128.0	193.2	210.6	231.1	119.9
62.5°	103.1	169.6	174.0	202.5	91.3
65°	88.2	156.6	141.0	180.8	70.8
67.5°	78.3	146.0	114.9	161.5	60.3
70°	70.8	129.9	95.1	144.8	56.5
72.5°	69.0	110.6	73.3	129.2	55.9
75°	66.5	93.8	52.8	106.2	55.3
77.5°	57.2	80.1	37.9	82.0	51.6
80°	49.7	64.0	28.0	61.5	45.4
82.5°	38.5	48.5	24.9	46.6	36.7
85°	24.9	36.7	26.1	33.6	25.5
87.5°	11.8	20.5	18.6	18.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)