

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: P292682

Luminaire Tested: **22GR-LD5-32-A19/156-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292682
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-LD5-32-A19/156-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2934.0 lumens
Efficiency: N/A
Efficacy: 116.8 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

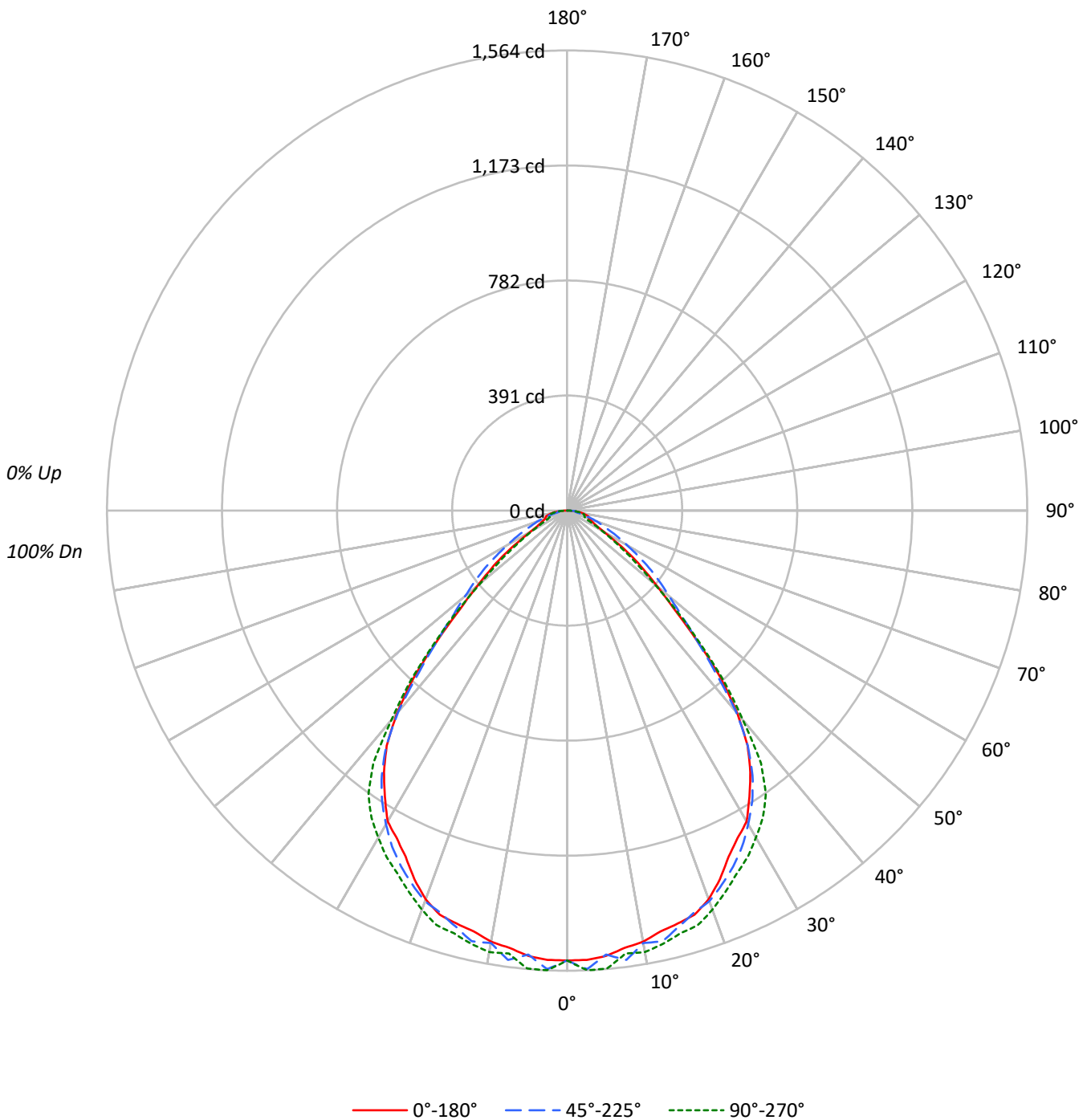
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4115	4115	4115
5°	4104	4091	4220
10°	4067	4078	4163
15°	4048	4079	4144
20°	4027	4046	4133
25°	3855	3964	4045
30°	3791	3826	3989
35°	3565	3611	3868
40°	3159	3137	3261
45°	2360	2365	2431
50°	1661	1890	1609
55°	1226	1596	1099
60°	766	1261	718
65°	625	999	502
70°	620	832	495
75°	769	611	639
80°	857	482	783
85°	855	895	874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	5.0
10°-20°	414.6	14.1
20°-30°	614.1	20.9
30°-40°	687.9	23.4
40°-50°	505.4	17.2
50°-60°	282.5	9.6
60°-70°	157.5	5.4
70°-80°	92.5	3.2
80°-90°	34.0	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°	1174.3	40.0
0°-40°	1862.1	63.5
0°-60°	2650.0	90.3
0°-90°	2934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2934.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1529	1529	1529	1529	1529	
5°	1519	1548	1515	1546	1562	144
15°	1453	1462	1464	1486	1488	410
25°	1298	1309	1335	1354	1362	602
35°	1085	1086	1099	1149	1177	672
45°	620	670	622	666	639	484
55°	261	318	340	339	234	233
65°	98	174	157	201	79	102
75°	74	104	59	118	62	74
85°	28	41	29	37	28	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1529.1	1529.1	1529.1	1529.1	1529.1
2.5°	1528.4	1542.3	1560.2	1562.3	1563.7
5°	1519.4	1547.8	1514.6	1545.7	1562.3
7.5°	1498.7	1516.0	1540.2	1509.1	1518.1
10°	1488.3	1492.5	1492.5	1531.2	1523.6
12.5°	1464.8	1492.5	1499.4	1491.8	1508.4
15°	1453.1	1462.1	1464.1	1486.3	1487.6
17.5°	1439.9	1437.9	1433.0	1448.9	1477.3
20°	1406.1	1398.5	1413.0	1432.3	1443.4
22.5°	1356.3	1358.4	1375.7	1391.6	1404.0
25°	1298.2	1308.6	1334.9	1353.5	1362.5
27.5°	1254.7	1269.9	1287.9	1310.0	1328.0
30°	1220.1	1218.7	1231.2	1263.0	1283.7
32.5°	1153.1	1157.9	1171.0	1209.1	1238.1
35°	1085.3	1086.0	1099.1	1148.9	1177.3
37.5°	1007.2	1001.7	1009.3	1063.2	1081.9
40°	899.4	900.7	893.1	931.2	928.4
42.5°	773.5	784.6	745.2	795.0	791.5
45°	620.1	670.5	621.5	665.7	638.7
47.5°	489.4	564.1	523.3	555.8	505.3
50°	396.8	473.5	451.4	465.9	384.4
52.5°	325.6	387.8	394.7	398.2	300.0
55°	261.3	318.0	340.1	339.4	234.3
57.5°	192.9	258.5	284.1	294.5	177.7
60°	142.4	215.0	234.3	257.2	133.4
62.5°	114.8	188.7	193.6	225.4	101.6
65°	98.2	174.2	156.9	201.2	78.8
67.5°	87.1	162.5	127.9	179.7	67.1
70°	78.8	144.5	105.8	161.1	62.9
72.5°	76.7	123.0	81.6	143.8	62.2
75°	74.0	104.4	58.8	118.2	61.5
77.5°	63.6	89.2	42.2	91.2	57.4
80°	55.3	71.2	31.1	68.4	50.5
82.5°	42.9	53.9	27.7	51.8	40.8
85°	27.7	40.8	29.0	37.3	28.3
87.5°	13.1	22.8	20.7	20.0	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)