

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: P292680

Luminaire Tested: **22GR-LD5-32-A19/156-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292680
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-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2803.0 lumens
Efficiency: N/A
Efficacy: 112.9 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

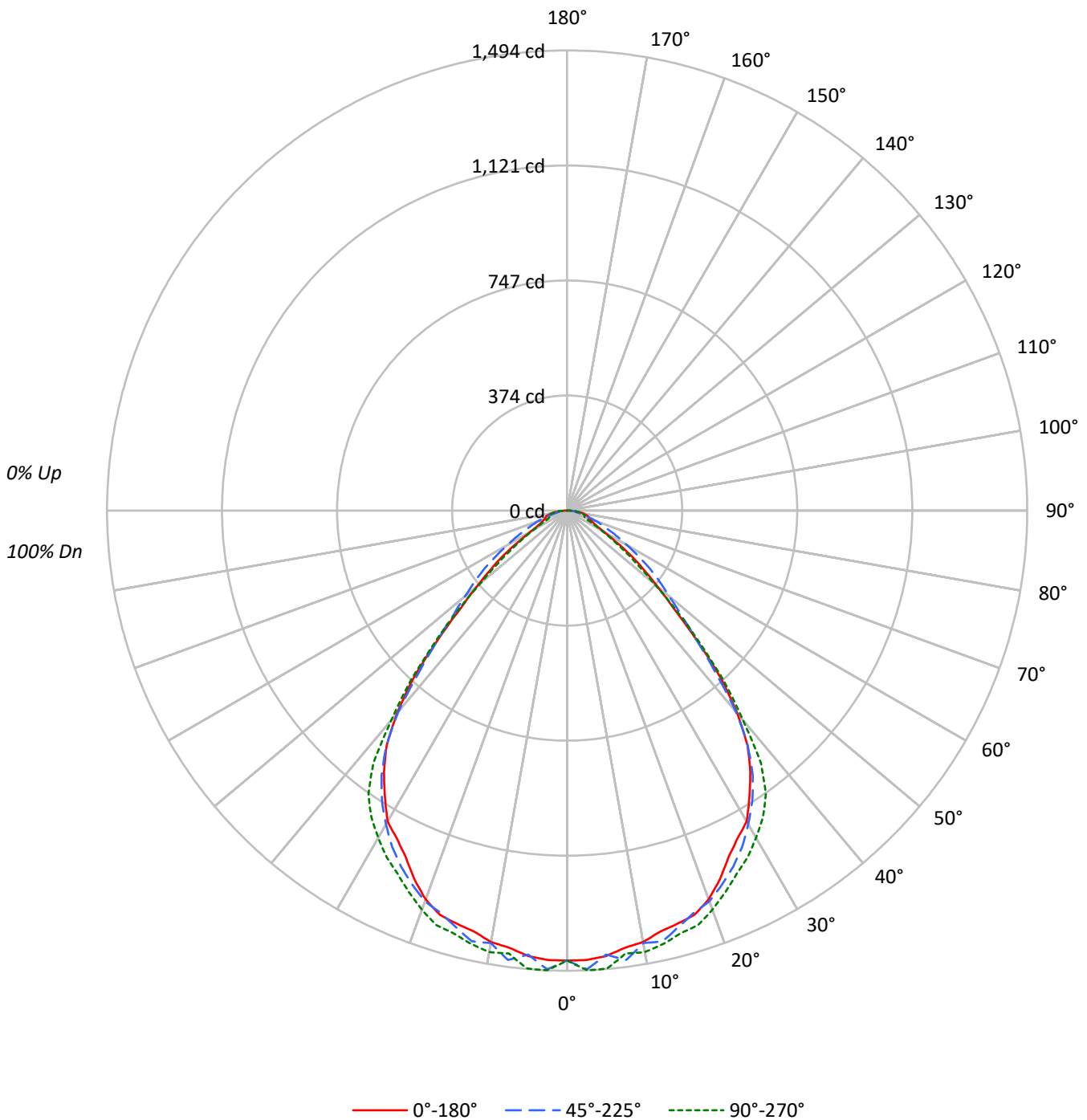
Input Watts (W): 24.831
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3931	3931	3931
5°	3921	3909	4032
10°	3885	3896	3977
15°	3867	3897	3959
20°	3847	3866	3949
25°	3683	3787	3865
30°	3622	3655	3811
35°	3406	3450	3695
40°	3018	2997	3116
45°	2254	2259	2322
50°	1587	1806	1537
55°	1171	1524	1050
60°	732	1205	686
65°	597	954	479
70°	592	795	473
75°	735	583	611
80°	818	460	747
85°	815	855	837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	5.0
10°-20°	396.1	14.1
20°-30°	586.7	20.9
30°-40°	657.1	23.4
40°-50°	482.9	17.2
50°-60°	269.9	9.6
60°-70°	150.4	5.4
70°-80°	88.4	3.2
80°-90°	32.5	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°	1121.8	40.0
0°-40°	1779.0	63.5
0°-60°	2531.7	90.3
0°-90°	2803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2803.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1461	1461	1461	1461	1461	
5°	1452	1479	1447	1477	1492	137
15°	1388	1397	1399	1420	1421	392
25°	1240	1250	1275	1293	1302	575
35°	1037	1038	1050	1098	1125	642
45°	592	641	594	636	610	463
55°	250	304	325	324	224	223
65°	94	166	150	192	75	97
75°	71	100	56	113	59	71
85°	26	39	28	36	27	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1460.8	1460.8	1460.8	1460.8	1460.8
2.5°	1460.2	1473.4	1490.6	1492.5	1493.9
5°	1451.6	1478.7	1447.0	1476.7	1492.5
7.5°	1431.8	1448.3	1471.4	1441.7	1450.3
10°	1421.9	1425.8	1425.8	1462.8	1455.6
12.5°	1399.4	1425.8	1432.4	1425.2	1441.0
15°	1388.2	1396.8	1398.8	1419.9	1421.2
17.5°	1375.7	1373.7	1369.0	1384.2	1411.3
20°	1343.3	1336.0	1349.9	1368.4	1379.0
22.5°	1295.7	1297.7	1314.2	1329.4	1341.3
25°	1240.3	1250.2	1275.3	1293.1	1301.7
27.5°	1198.7	1213.2	1230.4	1251.5	1268.7
30°	1165.6	1164.3	1176.2	1206.6	1226.4
32.5°	1101.6	1106.2	1118.7	1155.1	1182.8
35°	1036.9	1037.5	1050.1	1097.6	1124.7
37.5°	962.2	956.9	964.2	1015.7	1033.6
40°	859.2	860.5	853.3	889.6	886.9
42.5°	739.0	749.6	711.9	759.5	756.2
45°	592.4	640.6	593.7	636.0	610.2
47.5°	467.6	538.9	499.9	531.0	482.8
50°	379.1	452.4	431.3	445.1	367.2
52.5°	311.1	370.5	377.1	380.4	286.6
55°	249.6	303.8	324.9	324.3	223.9
57.5°	184.3	247.0	271.4	281.3	169.7
60°	136.0	205.4	223.9	245.7	127.5
62.5°	109.6	180.3	184.9	215.3	97.1
65°	93.8	166.4	149.9	192.2	75.3
67.5°	83.2	155.2	122.2	171.7	64.1
70°	75.3	138.0	101.0	153.9	60.1
72.5°	73.3	117.6	77.9	137.4	59.4
75°	70.7	99.7	56.1	112.9	58.8
77.5°	60.8	85.2	40.3	87.2	54.8
80°	52.8	68.0	29.7	65.4	48.2
82.5°	40.9	51.5	26.4	49.5	39.0
85°	26.4	39.0	27.7	35.7	27.1
87.5°	12.5	21.8	19.8	19.2	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)