

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: P292241

Luminaire Tested: **22GR-LD5-32-A-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-A-UNV-L93050-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3001.0 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

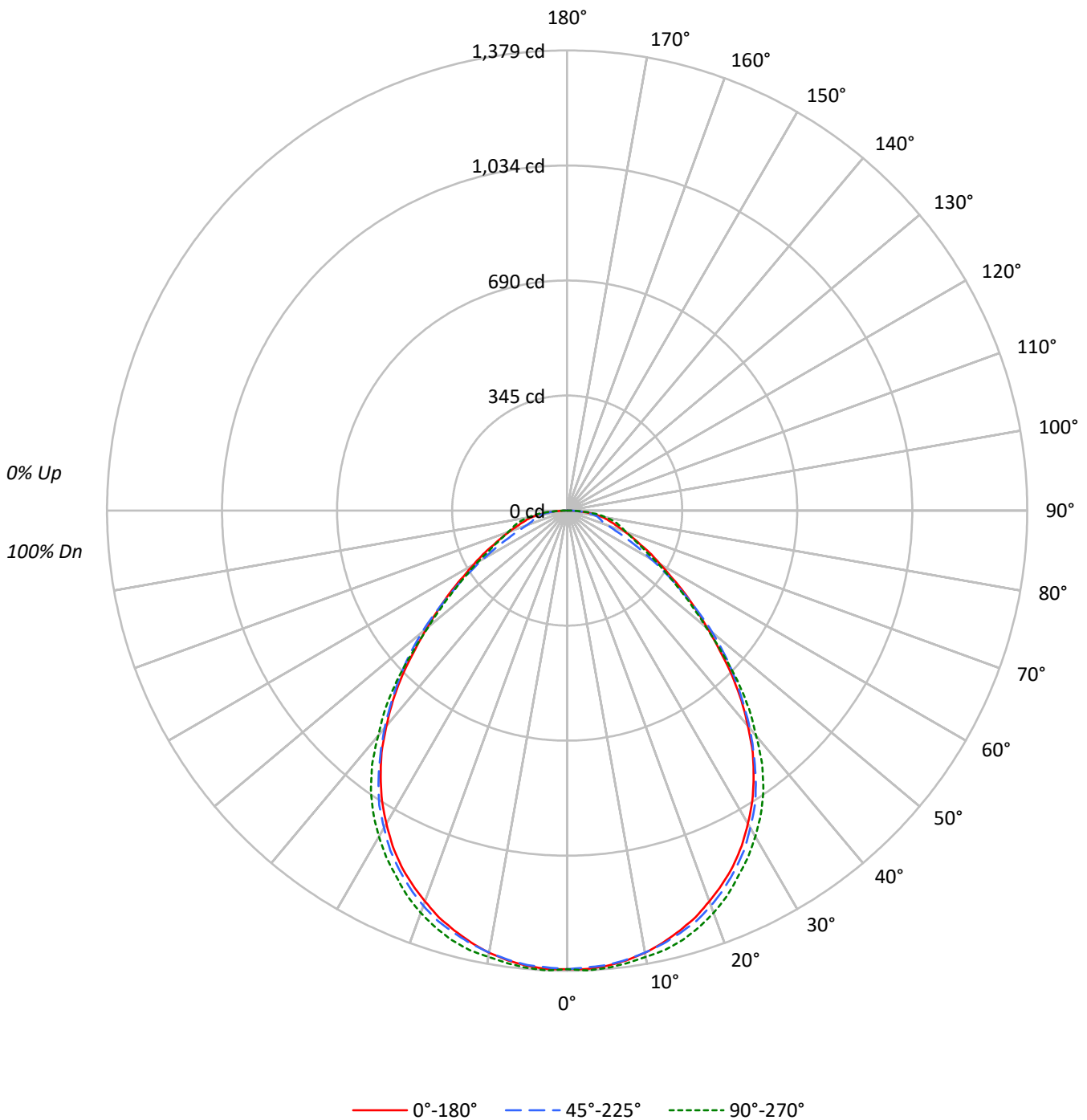
Input Watts (W): 25.575
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3698	3698	3698
5°	3699	3694	3716
10°	3677	3675	3712
15°	3630	3650	3714
20°	3568	3610	3674
25°	3492	3531	3595
30°	3365	3411	3504
35°	3200	3237	3368
40°	2958	2990	3096
45°	2657	2705	2748
50°	2298	2380	2274
55°	2005	1953	1926
60°	1736	1563	1669
65°	1552	1227	1498
70°	1440	1017	1478
75°	1438	1075	1641
80°	1592	1353	1850
85°	1661	1467	2090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	4.3
10°-20°	370.4	12.3
20°-30°	547.8	18.3
30°-40°	618.2	20.6
40°-50°	545.0	18.2
50°-60°	373.8	12.5
60°-70°	220.6	7.4
70°-80°	137.7	4.6
80°-90°	57.4	1.9
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°	1048.3	34.9
0°-40°	1666.5	55.5
0°-60°	2585.3	86.1
0°-90°	3001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3001.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1370	1367	1367	1372	1376	130
15°	1303	1304	1310	1326	1333	367
25°	1176	1180	1189	1205	1211	540
35°	974	983	985	1009	1025	607
45°	698	702	711	715	722	536
55°	427	417	416	402	411	383
65°	244	214	193	223	235	246
75°	138	124	103	145	158	148
85°	54	50	48	62	68	58
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°	1375.0	1371.6	1370.2	1375.7	1379.2
5°	1369.5	1366.7	1367.4	1372.3	1375.7
7.5°	1359.7	1357.6	1357.6	1364.6	1368.1
10°	1345.7	1345.0	1345.0	1353.4	1358.3
12.5°	1326.2	1326.9	1329.7	1340.8	1349.2
15°	1303.1	1304.5	1310.1	1326.2	1333.1
17.5°	1278.0	1278.0	1289.2	1301.7	1310.1
20°	1245.9	1247.9	1260.5	1274.5	1282.9
22.5°	1213.0	1216.5	1227.0	1243.1	1250.7
25°	1176.0	1180.2	1189.3	1204.7	1210.9
27.5°	1132.7	1138.3	1148.1	1159.3	1172.5
30°	1083.1	1091.5	1097.8	1113.2	1127.8
32.5°	1032.9	1040.5	1047.5	1063.6	1080.3
35°	974.2	982.6	985.4	1009.1	1025.2
37.5°	914.1	917.6	919.0	942.8	960.2
40°	842.2	849.2	851.3	870.1	881.3
42.5°	773.1	775.9	780.1	794.0	807.3
45°	698.3	701.8	710.9	715.1	722.1
47.5°	620.1	630.6	641.1	627.8	628.5
50°	548.9	557.3	568.5	543.3	543.3
52.5°	485.4	489.5	490.2	469.3	473.5
55°	427.4	416.9	416.2	402.2	410.6
57.5°	369.4	355.5	350.6	346.4	356.2
60°	322.6	297.5	290.5	296.8	310.1
62.5°	284.2	252.1	238.8	254.9	266.8
65°	243.7	214.4	192.7	222.8	235.3
67.5°	212.3	184.4	156.4	199.0	208.1
70°	183.0	161.3	129.2	180.9	187.9
72.5°	159.2	142.5	111.7	163.4	171.8
75°	138.3	124.3	103.4	144.6	157.8
77.5°	121.5	106.1	96.4	125.0	141.1
80°	102.7	87.3	87.3	104.8	119.4
82.5°	81.0	68.4	70.5	85.2	95.7
85°	53.8	50.3	47.5	62.2	67.7
87.5°	27.2	27.9	25.1	32.1	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)