

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: P292142

Luminaire Tested: **22GR-LD5-32-A-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292142
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-L83050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3374.0 lumens
Efficiency: N/A
Efficacy: 134.4 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

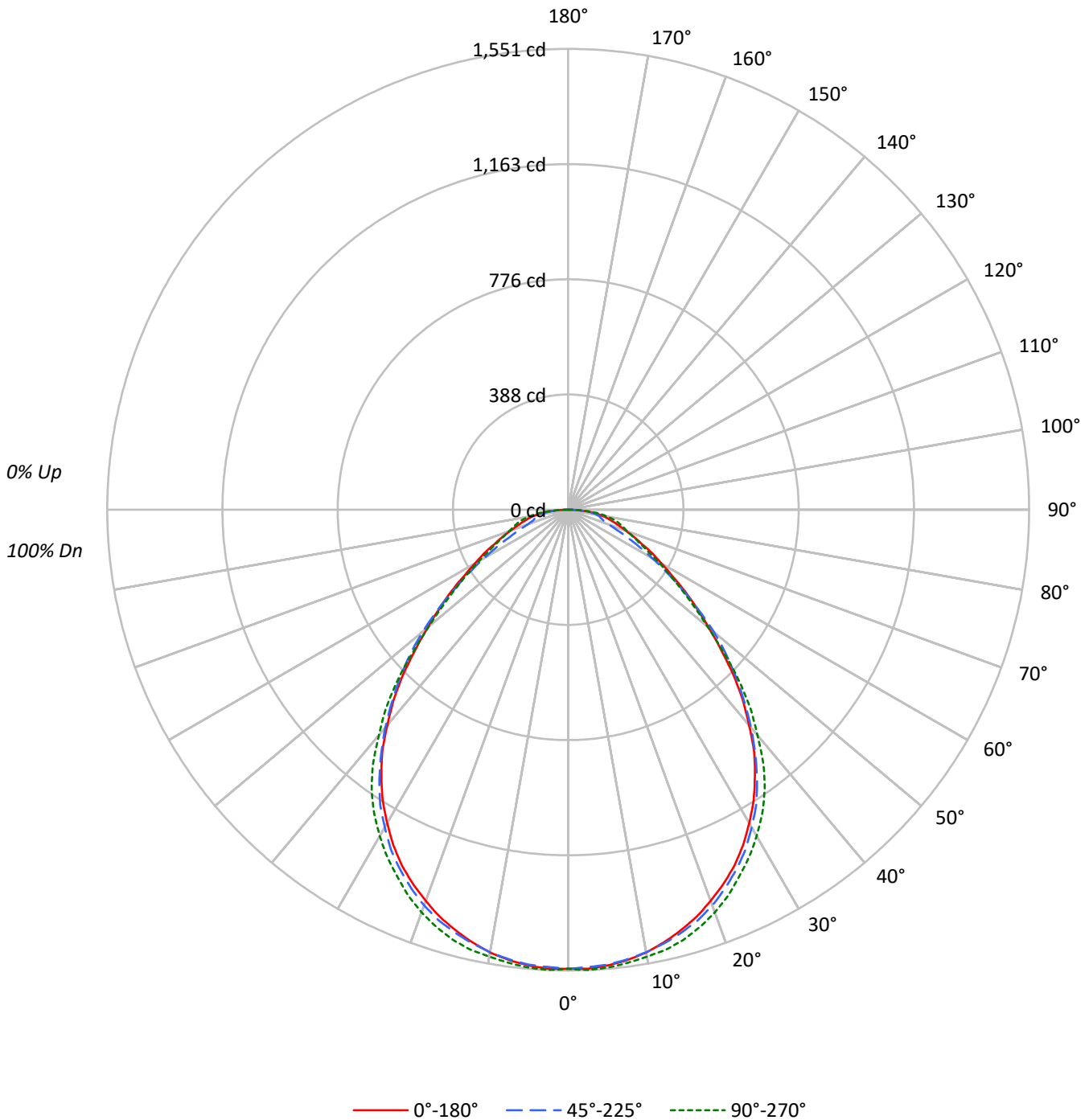
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4158	4158	4158
5°	4159	4153	4178
10°	4134	4132	4173
15°	4082	4103	4176
20°	4011	4058	4130
25°	3926	3970	4042
30°	3784	3835	3940
35°	3598	3639	3786
40°	3326	3362	3481
45°	2988	3042	3089
50°	2583	2676	2557
55°	2254	2195	2166
60°	1952	1758	1876
65°	1745	1380	1685
70°	1618	1143	1662
75°	1617	1208	1844
80°	1788	1520	2081
85°	1868	1649	2353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	4.3
10°-20°	416.5	12.3
20°-30°	615.9	18.3
30°-40°	695.0	20.6
40°-50°	612.7	18.2
50°-60°	420.3	12.5
60°-70°	248.0	7.4
70°-80°	154.8	4.6
80°-90°	64.5	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°	1178.6	34.9
0°-40°	1873.7	55.5
0°-60°	2906.7	86.1
0°-90°	3374.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3374.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1545	1545	1545	1545	1545	
5°	1540	1536	1537	1543	1547	146
15°	1465	1467	1473	1491	1499	413
25°	1322	1327	1337	1354	1361	607
35°	1095	1105	1108	1134	1153	682
45°	785	789	799	804	812	603
55°	480	469	468	452	462	431
65°	274	241	217	250	265	276
75°	156	140	116	162	177	167
85°	60	56	53	70	76	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1545.2	1545.2	1545.2	1545.2	1545.2
2.5°	1546.0	1542.0	1540.5	1546.7	1550.7
5°	1539.7	1536.5	1537.3	1542.8	1546.7
7.5°	1528.7	1526.3	1526.3	1534.2	1538.1
10°	1513.0	1512.2	1512.2	1521.6	1527.1
12.5°	1491.0	1491.8	1494.9	1507.5	1516.9
15°	1465.1	1466.7	1472.9	1491.0	1498.8
17.5°	1436.8	1436.8	1449.4	1463.5	1472.9
20°	1400.7	1403.1	1417.2	1432.9	1442.3
22.5°	1363.8	1367.7	1379.5	1397.6	1406.2
25°	1322.2	1326.9	1337.1	1354.4	1361.4
27.5°	1273.5	1279.8	1290.8	1303.3	1318.3
30°	1217.8	1227.2	1234.3	1251.5	1268.0
32.5°	1161.2	1169.9	1177.7	1195.8	1214.6
35°	1095.3	1104.7	1107.8	1134.5	1152.6
37.5°	1027.8	1031.7	1033.3	1059.9	1079.6
40°	946.9	954.7	957.1	978.3	990.9
42.5°	869.2	872.3	877.0	892.7	907.6
45°	785.1	789.1	799.3	804.0	811.8
47.5°	697.2	709.0	720.8	705.8	706.6
50°	617.1	626.5	639.1	610.8	610.8
52.5°	545.7	550.4	551.2	527.6	532.3
55°	480.5	468.7	467.9	452.2	461.7
57.5°	415.3	399.6	394.1	389.4	400.4
60°	362.7	334.5	326.6	333.7	348.6
62.5°	319.6	283.4	268.5	286.6	299.9
65°	274.0	241.0	216.7	250.5	264.6
67.5°	238.7	207.3	175.9	223.8	234.0
70°	205.7	181.4	145.3	203.4	211.2
72.5°	179.0	160.2	125.6	183.7	193.1
75°	155.5	139.8	116.2	162.5	177.4
77.5°	136.6	119.3	108.4	140.5	158.6
80°	115.4	98.1	98.1	117.8	134.3
82.5°	91.1	76.9	79.3	95.8	107.6
85°	60.5	56.5	53.4	69.9	76.2
87.5°	30.6	31.4	28.3	36.1	36.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)