

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: P292140

Luminaire Tested: **22GR-LD5-32-A-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292140
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-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3037.0 lumens
Efficiency: N/A
Efficacy: 124.2 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

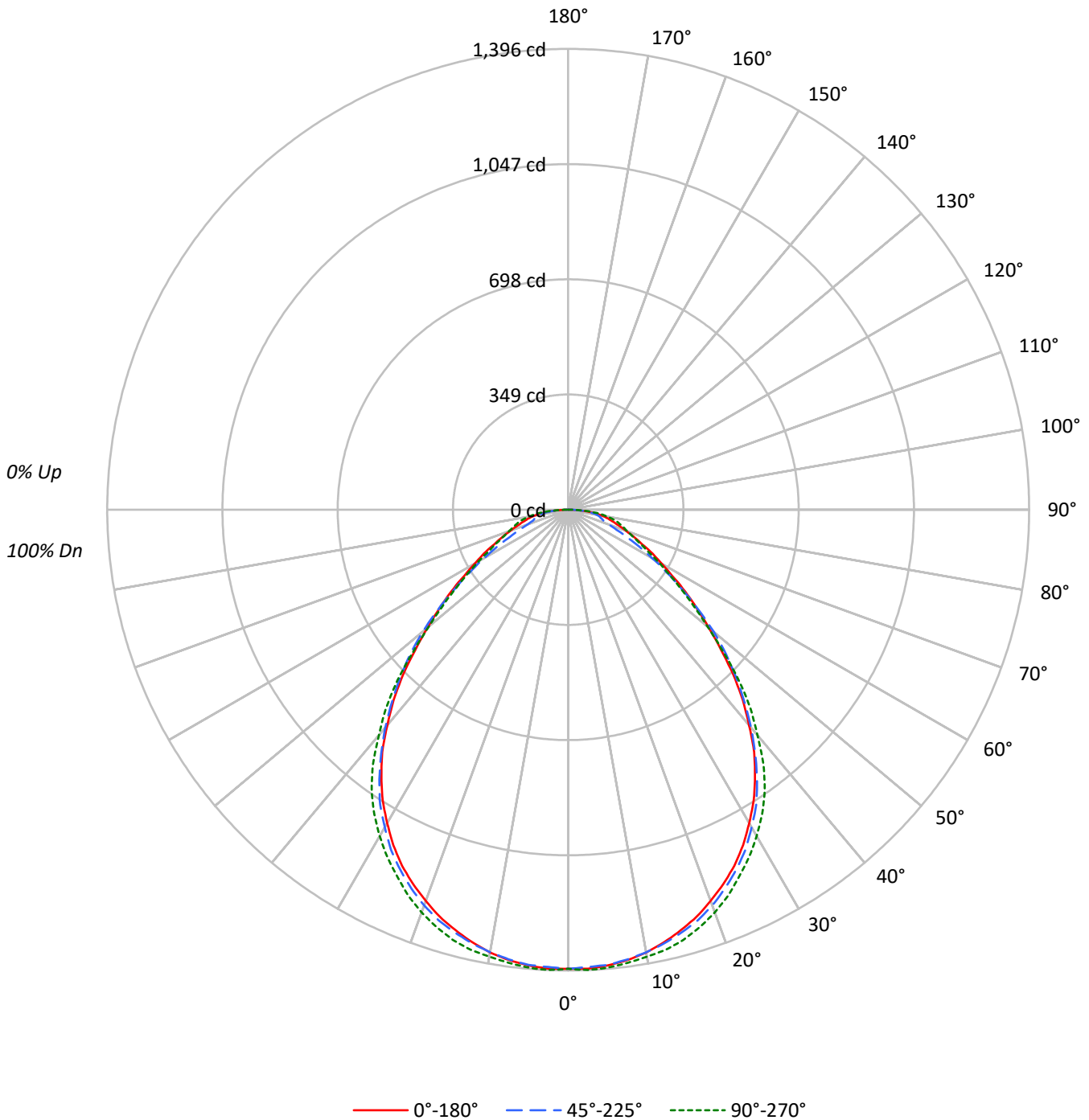
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3743	3743	3743
5°	3744	3738	3761
10°	3721	3719	3756
15°	3674	3694	3758
20°	3611	3653	3718
25°	3534	3574	3639
30°	3406	3452	3547
35°	3239	3276	3408
40°	2994	3026	3133
45°	2689	2738	2781
50°	2326	2408	2302
55°	2029	1976	1950
60°	1757	1582	1689
65°	1570	1242	1517
70°	1457	1028	1496
75°	1455	1088	1660
80°	1610	1368	1874
85°	1680	1485	2118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	4.3
10°-20°	374.9	12.3
20°-30°	554.4	18.3
30°-40°	625.6	20.6
40°-50°	551.5	18.2
50°-60°	378.3	12.5
60°-70°	223.3	7.4
70°-80°	139.3	4.6
80°-90°	58.1	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°	1060.9	34.9
0°-40°	1686.5	55.5
0°-60°	2616.4	86.1
0°-90°	3037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1391	1391	1391	1391	1391	
5°	1386	1383	1384	1389	1392	132
15°	1319	1320	1326	1342	1349	372
25°	1190	1194	1204	1219	1226	547
35°	986	994	997	1021	1038	614
45°	707	710	719	724	731	543
55°	432	422	421	407	416	388
65°	247	217	195	225	238	248
75°	140	126	105	146	160	150
85°	54	51	48	63	69	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1390.8	1390.8	1390.8	1390.8	<i>1390.8</i>
2.5°	<i>1391.5</i>	<i>1388.0</i>	<i>1386.6</i>	<i>1392.2</i>	<i>1395.8</i>
5°	1385.9	1383.1	1383.8	1388.7	<i>1392.2</i>
7.5°	1376.0	1373.9	1373.9	1380.9	<i>1384.5</i>
10°	1361.9	1361.2	1361.2	1369.6	<i>1374.6</i>
12.5°	1342.1	1342.8	1345.6	1356.9	<i>1365.4</i>
15°	1318.8	1320.2	1325.8	1342.1	<i>1349.1</i>
17.5°	1293.3	1293.3	1304.6	1317.3	<i>1325.8</i>
20°	1260.8	1262.9	1275.6	1289.8	<i>1298.3</i>
22.5°	1227.6	1231.1	1241.7	1258.0	<i>1265.7</i>
25°	1190.1	1194.4	1203.6	1219.1	<i>1225.5</i>
27.5°	1146.3	1152.0	1161.9	1173.2	<i>1186.6</i>
30°	1096.1	1104.6	1111.0	1126.5	<i>1141.4</i>
32.5°	1045.2	1053.0	1060.1	1076.3	<i>1093.3</i>
35°	985.9	994.4	997.2	1021.2	<i>1037.5</i>
37.5°	925.1	928.6	930.1	954.1	<i>971.7</i>
40°	852.3	859.4	861.5	880.6	<i>891.9</i>
42.5°	782.3	785.2	789.4	803.5	<i>817.0</i>
45°	706.7	710.3	719.4	723.7	<i>730.8</i>
47.5°	627.6	638.2	648.8	635.3	<i>636.1</i>
50°	555.5	564.0	575.3	549.8	<i>549.8</i>
52.5°	491.2	495.4	496.1	474.9	<i>479.2</i>
55°	432.5	421.9	421.2	407.1	<i>415.6</i>
57.5°	373.9	359.7	354.8	350.5	<i>360.4</i>
60°	326.5	301.1	294.0	300.4	<i>313.8</i>
62.5°	287.6	255.1	241.7	258.0	<i>270.0</i>
65°	246.6	217.0	195.1	225.4	<i>238.2</i>
67.5°	214.8	186.6	158.3	201.4	<i>210.6</i>
70°	185.2	163.3	130.7	183.0	<i>190.1</i>
72.5°	161.1	144.2	113.1	165.4	<i>173.9</i>
75°	139.9	125.8	104.6	146.3	<i>159.7</i>
77.5°	123.0	107.4	97.5	126.5	<i>142.8</i>
80°	103.9	88.3	88.3	106.0	<i>120.9</i>
82.5°	82.0	69.3	71.4	86.2	<i>96.8</i>
85°	54.4	50.9	48.1	62.9	<i>68.6</i>
87.5°	27.6	28.3	25.4	32.5	<i>33.2</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)