

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: P292292

Luminaire Tested: **22GR-LD5-32-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292292
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-L92765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3029.0 lumens
Efficiency: N/A
Efficacy: 119.7 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

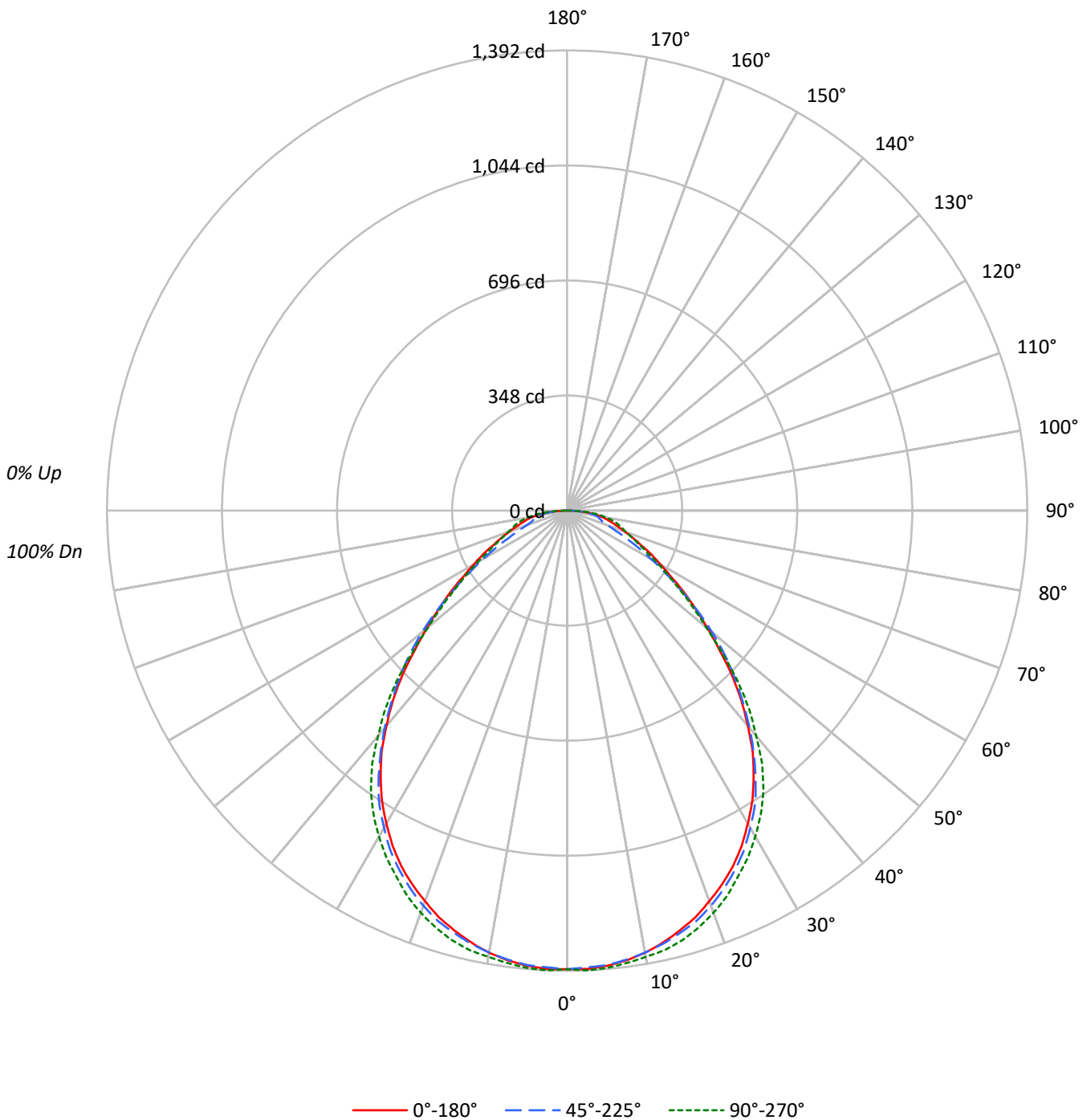
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3733	3733	3733
5°	3734	3728	3751
10°	3712	3710	3746
15°	3664	3684	3749
20°	3601	3643	3708
25°	3524	3564	3629
30°	3397	3443	3537
35°	3230	3267	3399
40°	2986	3018	3125
45°	2683	2731	2774
50°	2319	2402	2296
55°	2024	1971	1945
60°	1752	1578	1685
65°	1566	1238	1512
70°	1453	1026	1492
75°	1451	1084	1656
80°	1605	1365	1867
85°	1677	1479	2112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	4.3
10°-20°	373.9	12.3
20°-30°	552.9	18.3
30°-40°	624.0	20.6
40°-50°	550.1	18.2
50°-60°	377.3	12.5
60°-70°	222.7	7.4
70°-80°	138.9	4.6
80°-90°	57.9	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°	1058.1	34.9
0°-40°	1682.1	55.5
0°-60°	2609.5	86.1
0°-90°	3029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3029.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1387	1387	1387	1387	1387	
5°	1382	1379	1380	1385	1389	131
15°	1315	1317	1322	1338	1346	371
25°	1187	1191	1200	1216	1222	545
35°	983	992	995	1018	1035	613
45°	705	708	718	722	729	541
55°	431	421	420	406	414	387
65°	246	216	194	225	238	248
75°	140	126	104	146	159	150
85°	54	51	48	63	68	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.2	1387.2	1387.2	1387.2	<i>1387.2</i>
2.5°	<i>1387.9</i>	<i>1384.4</i>	<i>1382.9</i>	<i>1388.6</i>	<i>1392.1</i>
5°	1382.2	1379.4	1380.1	1385.1	<i>1388.6</i>
7.5°	1372.4	1370.3	1370.3	1377.3	<i>1380.8</i>
10°	1358.3	1357.6	1357.6	1366.0	<i>1371.0</i>
12.5°	1338.5	1339.2	1342.1	1353.3	<i>1361.8</i>
15°	1315.3	1316.7	1322.3	1338.5	<i>1345.6</i>
17.5°	1289.9	1289.9	1301.2	1313.9	<i>1322.3</i>
20°	1257.5	1259.6	1272.3	1286.4	<i>1294.8</i>
22.5°	1224.3	1227.9	1238.4	1254.7	<i>1262.4</i>
25°	1187.0	1191.2	1200.4	1215.9	<i>1222.2</i>
27.5°	1143.3	1148.9	1158.8	1170.1	<i>1183.5</i>
30°	1093.2	1101.7	1108.0	1123.6	<i>1138.4</i>
32.5°	1042.5	1050.2	1057.3	1073.5	<i>1090.4</i>
35°	983.3	991.7	994.6	1018.5	<i>1034.7</i>
37.5°	922.7	926.2	927.6	951.6	<i>969.2</i>
40°	850.1	857.1	859.2	878.3	<i>889.5</i>
42.5°	780.3	783.1	787.3	801.4	<i>814.8</i>
45°	704.9	708.4	717.6	721.8	<i>728.8</i>
47.5°	625.9	636.5	647.1	633.7	<i>634.4</i>
50°	554.0	562.5	573.8	548.4	<i>548.4</i>
52.5°	489.9	494.1	494.8	473.7	<i>477.9</i>
55°	431.4	420.8	420.1	406.0	<i>414.5</i>
57.5°	372.9	358.8	353.8	349.6	<i>359.5</i>
60°	325.6	300.3	293.2	299.6	<i>313.0</i>
62.5°	286.9	254.5	241.1	257.3	<i>269.3</i>
65°	246.0	216.4	194.5	224.9	<i>237.5</i>
67.5°	214.3	186.1	157.9	200.9	<i>210.0</i>
70°	184.7	162.8	130.4	182.6	<i>189.6</i>
72.5°	160.7	143.8	112.8	164.9	<i>173.4</i>
75°	139.6	125.5	104.3	145.9	<i>159.3</i>
77.5°	122.6	107.1	97.3	126.2	<i>142.4</i>
80°	103.6	88.1	88.1	105.7	<i>120.5</i>
82.5°	81.8	69.1	71.2	86.0	<i>96.6</i>
85°	54.3	50.8	47.9	62.7	<i>68.4</i>
87.5°	27.5	28.2	25.4	32.4	<i>33.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)