

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: P291795

Luminaire Tested: **22GR-LD5-32-F1-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-F1-UNV-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2957.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

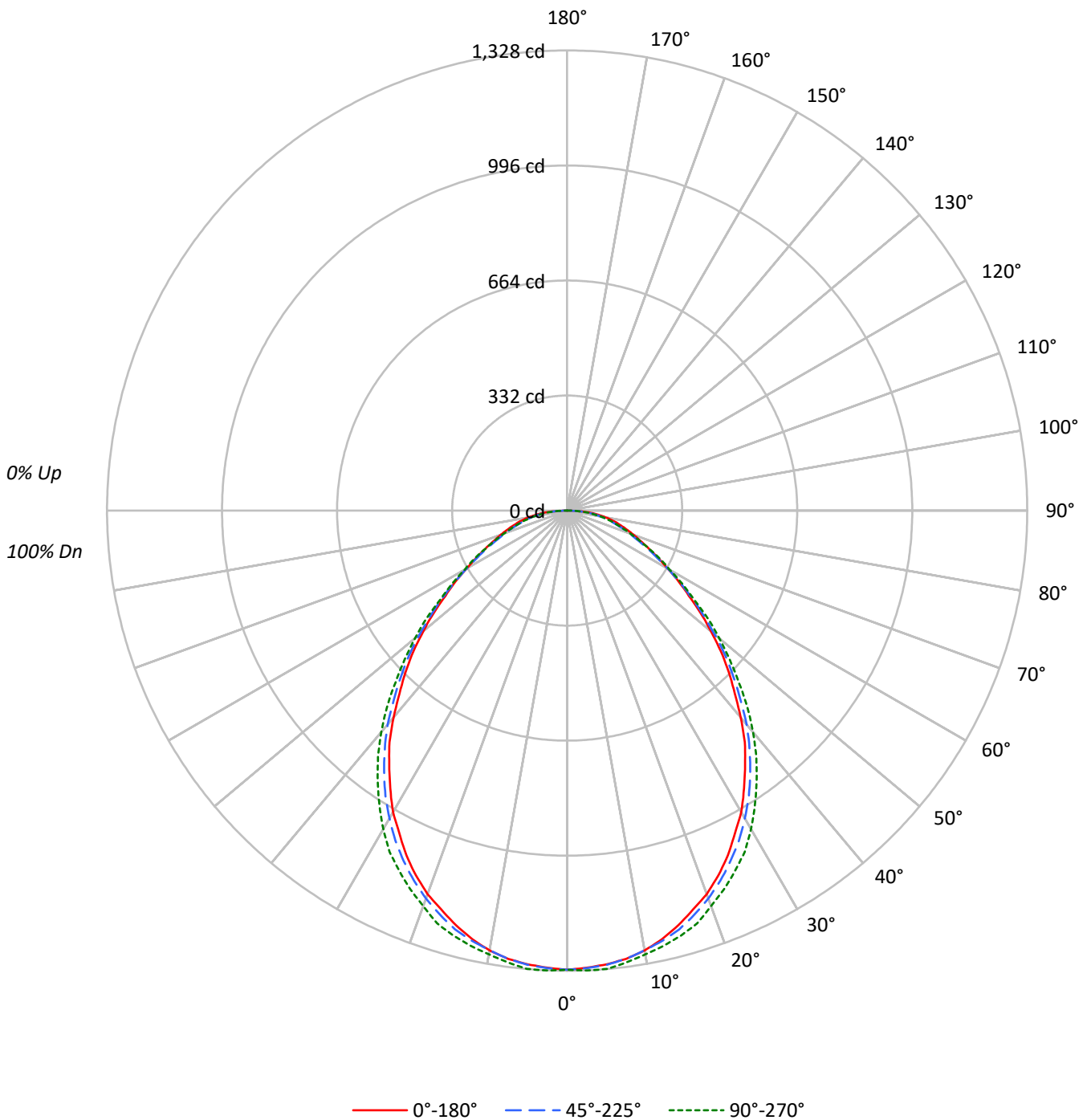
Input Watts (W): 24.552
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38					38			
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34					34			
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3566	3566	3566
5°	3550	3554	3587
10°	3522	3521	3554
15°	3451	3485	3536
20°	3373	3412	3478
25°	3261	3313	3406
30°	3123	3187	3299
35°	2941	3026	3133
40°	2736	2830	2932
45°	2512	2585	2665
50°	2266	2323	2397
55°	2011	2059	2093
60°	1802	1806	1842
65°	1661	1605	1661
70°	1603	1485	1528
75°	1631	1455	1483
80°	1757	1526	1526
85°	1951	1615	1593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	4.2
10°-20°	352.6	11.9
20°-30°	514.6	17.4
30°-40°	576.1	19.5
40°-50°	524.3	17.7
50°-60°	394.6	13.3
60°-70°	257.5	8.7
70°-80°	154.4	5.2
80°-90°	57.9	2.0
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°	992.1	33.6
0°-40°	1568.2	53.0
0°-60°	2487.1	84.1
0°-90°	2957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2957.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1325	1325	1325	1325	1325	
5°	1314	1312	1316	1320	1328	125
15°	1239	1240	1251	1261	1269	349
25°	1098	1102	1116	1136	1147	504
35°	895	903	921	943	954	559
45°	660	667	679	694	700	508
55°	429	435	439	445	446	387
65°	261	258	252	256	261	261
75°	157	152	140	141	143	166
85°	63	61	52	50	52	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1325.1	1325.1	1325.1	1325.1	1325.1
2.5°	1320.3	1319.7	1321.7	1325.1	1328.5
5°	1314.2	1312.2	1315.6	1320.3	1327.8
7.5°	1304.7	1304.7	1304.7	1313.5	1314.9
10°	1289.1	1290.5	1288.4	1297.2	1300.6
12.5°	1266.7	1267.4	1271.4	1280.3	1286.4
15°	1238.8	1240.2	1251.1	1261.3	1269.4
17.5°	1207.6	1212.4	1222.5	1238.8	1249.0
20°	1177.7	1183.1	1191.3	1209.0	1214.4
22.5°	1139.7	1145.8	1156.0	1171.6	1183.1
25°	1098.2	1101.6	1115.9	1136.3	1147.1
27.5°	1048.7	1056.1	1073.8	1094.9	1109.8
30°	1005.2	1009.3	1025.6	1050.0	1061.6
32.5°	950.2	962.4	976.0	997.7	1008.6
35°	895.2	903.3	921.0	942.7	953.6
37.5°	842.2	846.9	864.6	882.9	896.5
40°	779.0	787.9	805.5	825.2	834.7
42.5°	715.9	728.8	740.3	760.0	770.2
45°	660.2	667.0	679.2	693.5	700.2
47.5°	601.8	605.2	619.4	628.2	635.7
50°	541.3	545.4	554.9	563.7	572.6
52.5°	485.6	489.0	495.1	503.3	512.1
55°	428.6	434.7	438.8	444.9	446.2
57.5°	382.4	381.7	384.4	389.2	393.9
60°	334.8	336.2	335.5	340.3	342.3
62.5°	295.4	294.8	290.7	297.5	302.9
65°	260.8	258.1	252.0	256.1	260.8
67.5°	228.9	227.5	217.3	220.7	224.8
70°	203.8	199.0	188.8	190.9	194.2
72.5°	179.3	173.9	163.7	164.4	166.4
75°	156.9	151.5	139.9	140.6	142.6
77.5°	135.8	129.0	118.9	117.5	118.9
80°	113.4	107.3	98.5	94.4	98.5
82.5°	90.3	86.9	76.7	72.7	74.0
85°	63.2	61.1	52.3	49.6	51.6
87.5°	29.2	31.2	26.5	24.5	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)