

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: P291749

Luminaire Tested: **22GR-LD5-32-F1-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291749
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-L83050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3223.0 lumens
Efficiency: N/A
Efficacy: 131.3 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

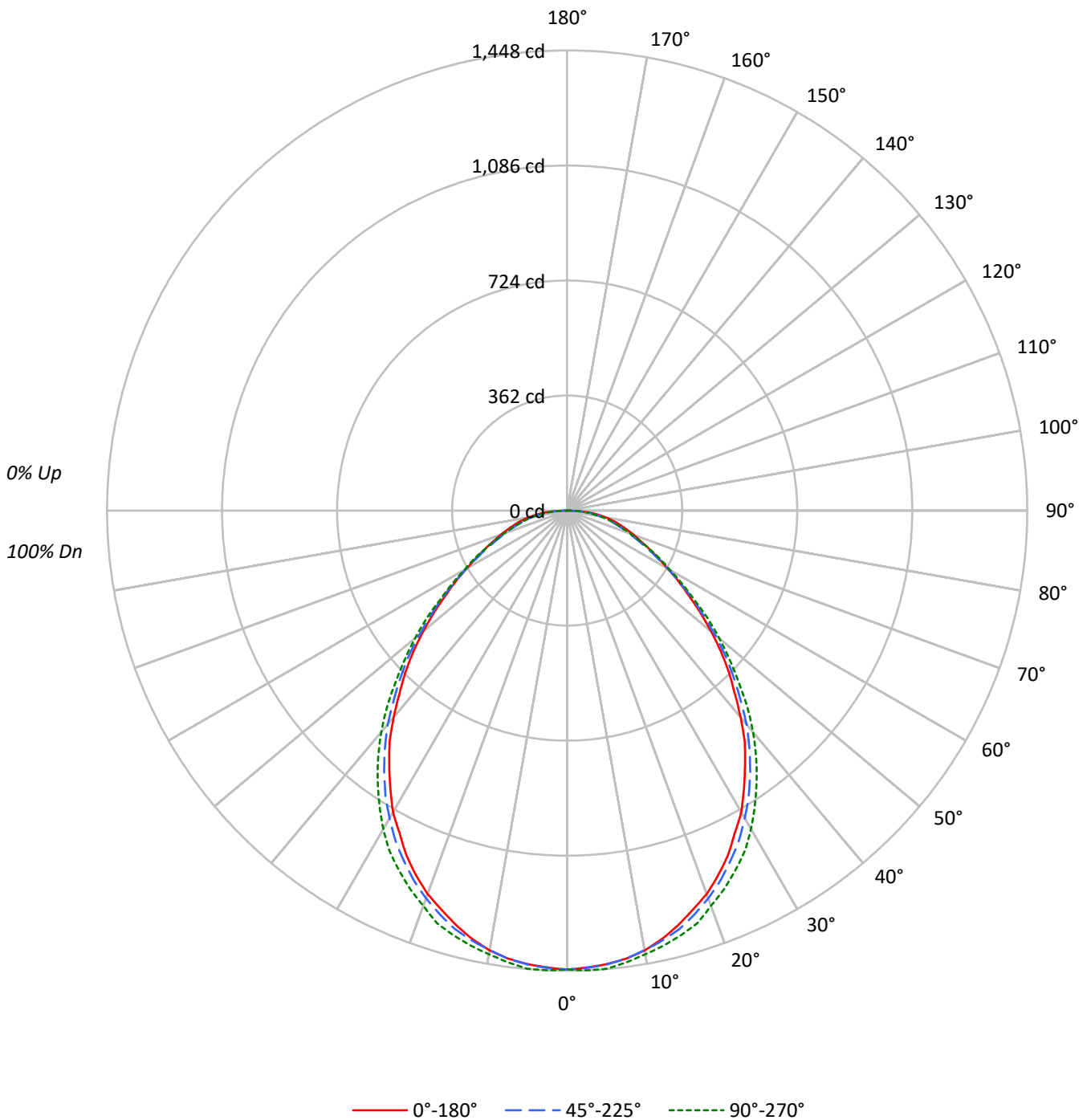
Input Watts (W): 24.552
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3887	3887	3887
5°	3870	3873	3910
10°	3839	3837	3874
15°	3762	3799	3855
20°	3676	3718	3790
25°	3554	3611	3712
30°	3404	3473	3595
35°	3205	3298	3415
40°	2983	3084	3196
45°	2739	2817	2904
50°	2470	2532	2613
55°	2191	2244	2282
60°	1964	1968	2008
65°	1810	1748	1810
70°	1747	1619	1666
75°	1778	1586	1617
80°	1915	1663	1663
85°	2124	1760	1738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.2	4.2
10°-20°	384.3	11.9
20°-30°	560.8	17.4
30°-40°	627.9	19.5
40°-50°	571.5	17.7
50°-60°	430.1	13.3
60°-70°	280.7	8.7
70°-80°	168.3	5.2
80°-90°	63.1	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°	1081.4	33.6
0°-40°	1709.3	53.0
0°-60°	2710.9	84.1
0°-90°	3223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3223.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1432	1430	1434	1439	1447	136
15°	1350	1352	1364	1375	1384	380
25°	1197	1201	1216	1238	1250	550
35°	976	985	1004	1028	1039	610
45°	720	727	740	756	763	554
55°	467	474	478	485	486	422
65°	284	281	275	279	284	284
75°	171	165	152	153	156	181
85°	69	67	57	54	56	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1444.3	1444.3	1444.3	1444.3	1444.3
2.5°	1439.1	1438.4	1440.6	1444.3	1448.0
5°	1432.5	1430.2	1433.9	1439.1	1447.3
7.5°	1422.1	1422.1	1422.1	1431.7	1433.2
10°	1405.1	1406.5	1404.3	1413.9	1417.6
12.5°	1380.6	1381.4	1385.8	1395.4	1402.1
15°	1350.3	1351.8	1363.6	1374.7	1383.6
17.5°	1316.2	1321.4	1332.5	1350.3	1361.4
20°	1283.7	1289.6	1298.5	1317.7	1323.6
22.5°	1242.2	1248.9	1260.0	1277.0	1289.6
25°	1197.0	1200.7	1216.3	1238.5	1250.3
27.5°	1143.0	1151.1	1170.4	1193.3	1209.6
30°	1095.6	1100.1	1117.8	1144.5	1157.1
32.5°	1035.7	1049.0	1063.8	1087.5	1099.3
35°	975.7	984.6	1003.8	1027.5	1039.4
37.5°	918.0	923.1	942.4	962.4	977.2
40°	849.1	858.7	878.0	899.4	909.8
42.5°	780.3	794.3	806.9	828.4	839.5
45°	719.6	727.0	740.3	755.8	763.2
47.5°	655.9	659.6	675.1	684.8	692.9
50°	590.0	594.4	604.8	614.4	624.1
52.5°	529.3	533.0	539.7	548.6	558.2
55°	467.1	473.8	478.2	484.9	486.4
57.5°	416.8	416.0	419.0	424.2	429.4
60°	365.0	366.4	365.7	370.9	373.1
62.5°	322.0	321.3	316.8	324.2	330.2
65°	284.3	281.3	274.6	279.1	284.3
67.5°	249.5	248.0	236.9	240.6	245.0
70°	222.1	216.9	205.8	208.0	211.7
72.5°	195.4	189.5	178.4	179.1	181.4
75°	171.0	165.1	152.5	153.2	155.5
77.5°	148.1	140.7	129.5	128.1	129.5
80°	123.6	117.0	107.3	102.9	107.3
82.5°	98.5	94.8	83.7	79.2	80.7
85°	68.8	66.6	57.0	54.0	56.3
87.5°	31.8	34.1	28.9	26.7	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)