

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: P292032

Luminaire Tested: **22GR-LD5-24-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-F125-UNV-L93050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1898.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

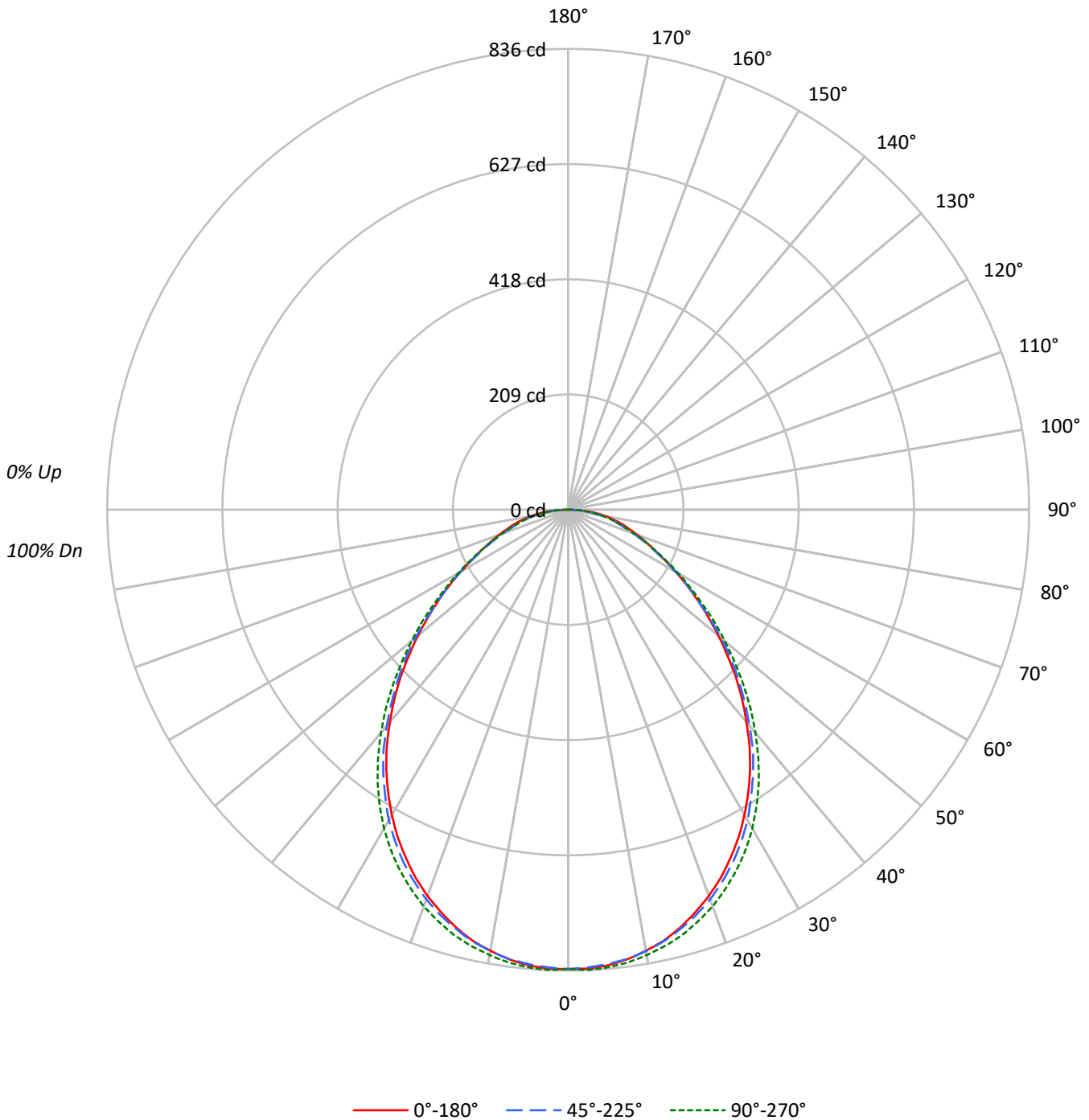
Input Watts (W): 18.507
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2242	2242	2242
5°	2241	2235	2251
10°	2220	2222	2242
15°	2186	2194	2226
20°	2135	2154	2193
25°	2069	2097	2143
30°	1987	2021	2074
35°	1890	1920	1979
40°	1767	1796	1855
45°	1636	1661	1709
50°	1490	1514	1552
55°	1345	1349	1388
60°	1207	1211	1239
65°	1099	1077	1102
70°	1046	987	1005
75°	1053	952	957
80°	1093	962	956
85°	1198	1019	966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	4.1
10°-20°	222.4	11.7
20°-30°	325.5	17.1
30°-40°	365.9	19.3
40°-50°	337.5	17.8
50°-60°	260.1	13.7
60°-70°	171.6	9.0
70°-80°	99.9	5.3
80°-90°	36.4	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°	626.6	33.0
0°-40°	992.5	52.3
0°-60°	1590.1	83.8
0°-90°	1898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	830	828	828	832	833	79
15°	785	785	787	794	799	221
25°	697	700	706	716	722	320
35°	575	578	584	596	602	359
45°	430	430	436	445	449	331
55°	287	286	288	292	296	257
65°	173	172	169	170	173	173
75°	101	97	92	90	92	107
85°	39	38	33	30	31	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	833.2	833.2	833.2	833.2	833.2
2.5°	833.2	831.5	831.0	834.1	835.9
5°	829.7	827.9	827.5	831.5	833.2
7.5°	822.7	821.3	821.8	826.2	828.4
10°	812.5	812.1	813.0	817.8	820.5
12.5°	800.6	800.2	802.0	807.2	810.8
15°	784.8	784.8	787.4	794.5	798.9
17.5°	765.8	767.2	771.1	778.2	783.0
20°	745.6	746.9	752.2	760.1	765.8
22.5°	723.1	724.9	730.2	739.9	744.7
25°	696.7	700.2	706.4	716.1	721.8
27.5°	669.4	673.4	679.1	691.0	696.3
30°	639.5	642.1	650.5	661.5	667.6
32.5°	607.7	610.4	617.4	630.6	635.9
35°	575.2	577.8	584.4	596.3	602.5
37.5°	539.9	542.1	550.1	559.3	565.9
40°	502.9	506.0	511.3	522.3	528.0
42.5°	466.8	468.1	473.9	484.9	489.3
45°	429.8	430.3	436.4	445.2	449.2
47.5°	391.5	392.4	399.9	405.2	409.1
50°	355.8	356.3	361.6	366.4	370.8
52.5°	320.2	320.2	322.8	328.1	333.8
55°	286.7	286.3	287.6	292.4	295.9
57.5°	255.0	254.5	256.3	259.4	262.0
60°	224.2	223.3	225.0	226.8	230.3
62.5°	196.9	197.7	195.5	198.2	200.8
65°	172.6	171.8	169.1	170.4	173.1
67.5°	151.9	150.6	146.2	147.1	150.2
70°	133.0	130.4	125.5	125.5	127.7
72.5°	115.8	113.2	107.0	107.5	108.3
75°	101.3	96.9	91.6	89.8	92.0
77.5°	85.4	81.9	77.1	75.7	76.6
80°	70.5	67.8	62.1	60.3	61.7
82.5°	55.9	53.7	47.1	45.8	46.2
85°	38.8	38.3	33.0	30.4	31.3
87.5°	20.7	21.1	17.2	15.4	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)