

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: P292033

Luminaire Tested: **22GR-LD5-24-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292033
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-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2074.0 lumens
Efficiency: N/A
Efficacy: 112.1 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

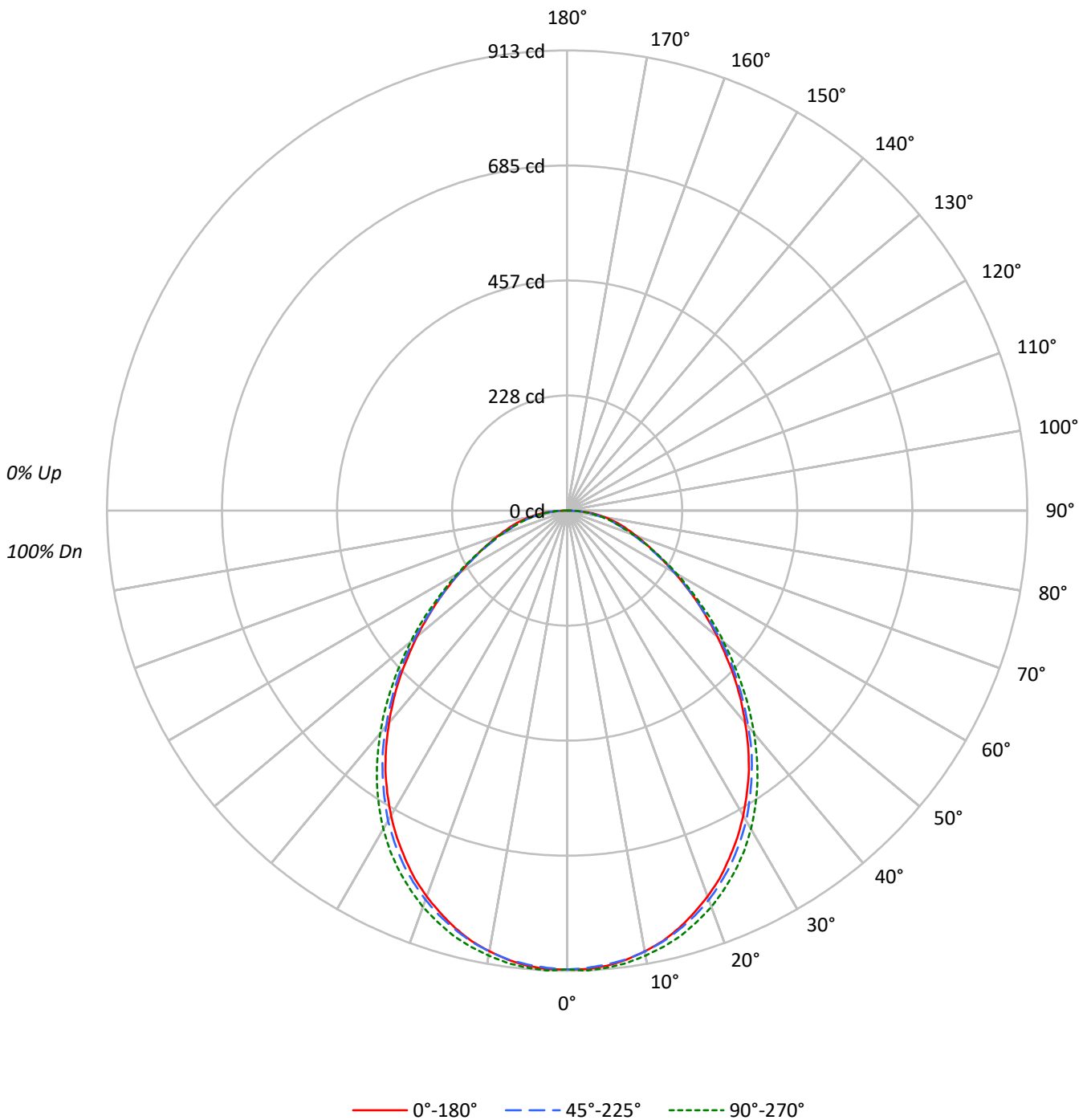
Input Watts (W): 18.507
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2450	2450	2450
5°	2449	2442	2459
10°	2426	2428	2450
15°	2389	2397	2432
20°	2333	2354	2397
25°	2260	2292	2342
30°	2171	2209	2267
35°	2065	2098	2163
40°	1931	1963	2027
45°	1787	1815	1868
50°	1628	1654	1696
55°	1470	1474	1517
60°	1318	1323	1355
65°	1201	1177	1204
70°	1143	1079	1098
75°	1151	1041	1046
80°	1193	1052	1044
85°	1306	1115	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	4.1
10°-20°	243.0	11.7
20°-30°	355.7	17.1
30°-40°	399.9	19.3
40°-50°	368.8	17.8
50°-60°	284.2	13.7
60°-70°	187.5	9.0
70°-80°	109.2	5.3
80°-90°	39.8	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°	684.7	33.0
0°-40°	1084.5	52.3
0°-60°	1737.5	83.8
0°-90°	2074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	907	905	904	909	910	86
15°	858	858	860	868	873	241
25°	761	765	772	782	789	350
35°	628	631	639	652	658	392
45°	470	470	477	486	491	362
55°	313	313	314	320	323	281
65°	189	188	185	186	189	189
75°	111	106	100	98	101	117
85°	42	42	36	33	34	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.5	910.5	910.5	910.5	910.5
2.5°	910.5	908.6	908.1	911.5	913.4
5°	906.6	904.7	904.2	908.6	910.5
7.5°	898.9	897.5	898.0	902.8	905.2
10°	887.9	887.4	888.4	893.7	896.5
12.5°	874.9	874.4	876.3	882.1	886.0
15°	857.6	857.6	860.4	868.1	873.0
17.5°	836.9	838.3	842.6	850.3	855.6
20°	814.7	816.2	821.9	830.6	836.9
22.5°	790.2	792.1	797.9	808.5	813.8
25°	761.3	765.2	771.9	782.5	788.7
27.5°	731.5	735.8	742.1	755.1	760.8
30°	698.8	701.6	710.8	722.8	729.6
32.5°	664.1	667.0	674.7	689.1	694.9
35°	628.5	631.4	638.6	651.6	658.3
37.5°	590.0	592.4	601.1	611.2	618.4
40°	549.6	552.9	558.7	570.7	577.0
42.5°	510.1	511.6	517.8	529.8	534.7
45°	469.7	470.2	476.9	486.5	490.9
47.5°	427.8	428.8	437.0	442.7	447.1
50°	388.8	389.3	395.1	400.4	405.2
52.5°	349.9	349.9	352.7	358.5	364.8
55°	313.3	312.8	314.2	319.5	323.4
57.5°	278.6	278.2	280.1	283.4	286.3
60°	244.9	244.0	245.9	247.8	251.7
62.5°	215.1	216.1	213.7	216.6	219.4
65°	188.6	187.7	184.8	186.2	189.1
67.5°	166.0	164.6	159.8	160.7	164.1
70°	145.3	142.4	137.2	137.2	139.6
72.5°	126.6	123.7	116.9	117.4	118.4
75°	110.7	105.9	100.1	98.2	100.6
77.5°	93.4	89.5	84.2	82.8	83.7
80°	77.0	74.1	67.9	65.9	67.4
82.5°	61.1	58.7	51.5	50.0	50.5
85°	42.3	41.9	36.1	33.2	34.2
87.5°	22.6	23.1	18.8	16.8	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)