

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: P292270

Luminaire Tested: **22GR-LD5-24-A-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292270
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-LD5-24-A-UNV-L92765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2148.9 lumens
Efficiency: N/A
Efficacy: 117.3 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

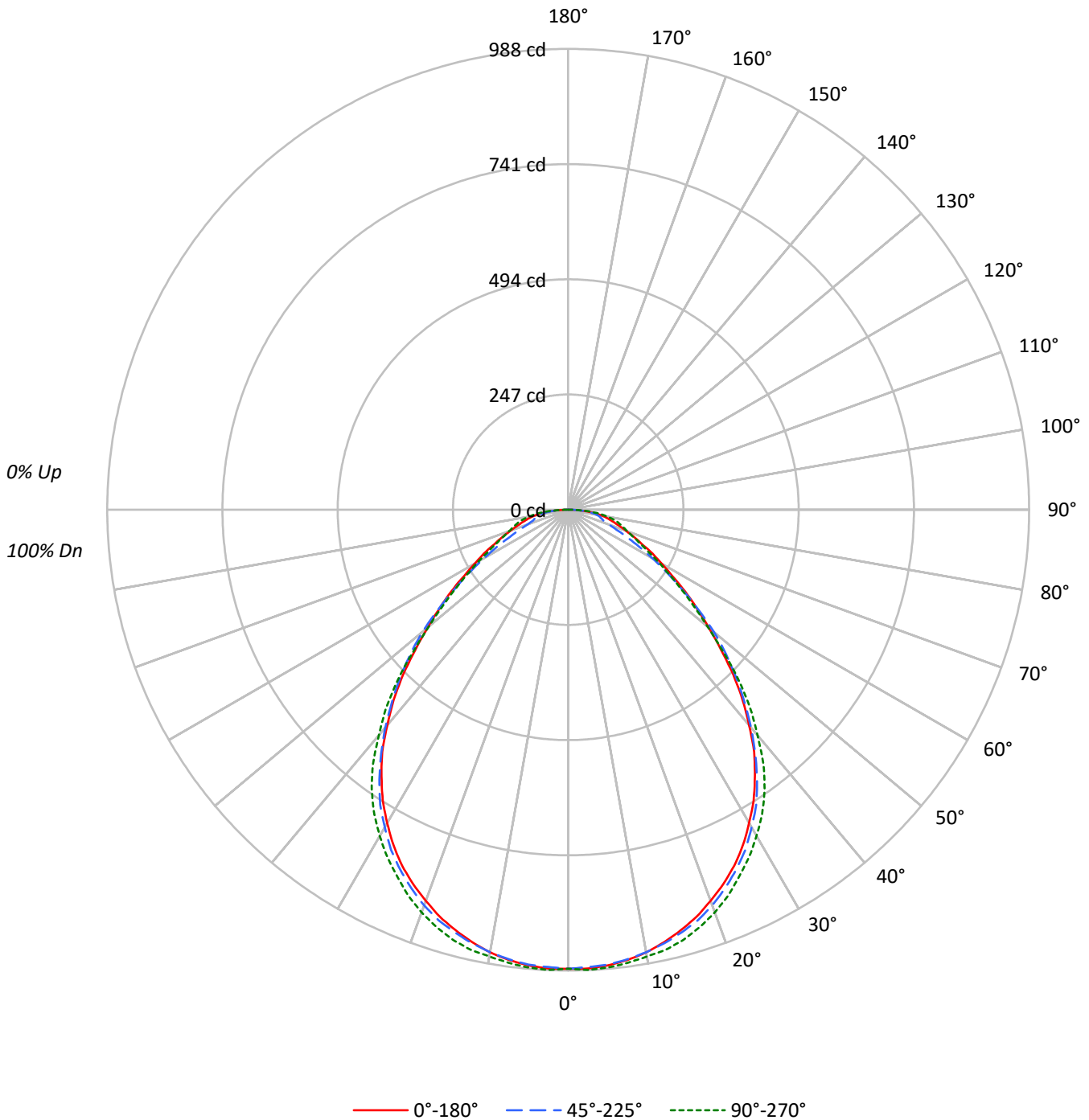
Input Watts (W): 18.321
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2648	2648	2648
5°	2649	2645	2661
10°	2633	2632	2658
15°	2600	2614	2660
20°	2555	2585	2631
25°	2500	2529	2575
30°	2410	2443	2509
35°	2292	2318	2412
40°	2119	2141	2217
45°	1903	1937	1968
50°	1646	1704	1629
55°	1436	1398	1379
60°	1243	1119	1195
65°	1111	879	1073
70°	1031	728	1058
75°	1029	769	1175
80°	1139	969	1325
85°	1189	1050	1497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.1	4.3
10°-20°	265.3	12.3
20°-30°	392.3	18.3
30°-40°	442.7	20.6
40°-50°	390.3	18.2
50°-60°	267.7	12.5
60°-70°	157.9	7.3
70°-80°	98.6	4.6
80°-90°	41.1	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°	750.7	34.9
0°-40°	1193.4	55.5
0°-60°	1851.3	86.2
0°-90°	2148.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2148.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	981	979	979	983	985	93
15°	933	934	938	950	955	263
25°	842	845	852	863	867	387
35°	698	704	706	723	734	435
45°	500	503	509	512	517	384
55°	306	298	298	288	294	275
65°	174	154	138	160	168	176
75°	99	89	74	104	113	106
85°	38	36	34	44	48	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	984.2	984.2	984.2	984.2	984.2
2.5°	984.7	982.2	981.2	985.2	987.7
5°	980.7	978.7	979.2	982.7	985.2
7.5°	973.7	972.2	972.2	977.2	979.7
10°	963.7	963.2	963.2	969.2	972.7
12.5°	949.7	950.2	952.2	960.2	966.2
15°	933.2	934.2	938.2	949.7	954.7
17.5°	915.2	915.2	923.2	932.2	938.2
20°	892.1	893.6	902.7	912.7	918.7
22.5°	868.6	871.1	878.6	890.1	895.6
25°	842.1	845.1	851.6	862.6	867.1
27.5°	811.1	815.1	822.1	830.1	839.6
30°	775.6	781.6	786.1	797.1	807.6
32.5°	739.6	745.1	750.1	761.6	773.6
35°	697.6	703.6	705.6	722.6	734.1
37.5°	654.6	657.1	658.1	675.1	687.6
40°	603.1	608.1	609.6	623.1	631.1
42.5°	553.6	555.6	558.6	568.6	578.1
45°	500.1	502.6	509.1	512.1	517.1
47.5°	444.1	451.6	459.1	449.6	450.1
50°	393.1	399.1	407.1	389.1	389.1
52.5°	347.6	350.6	351.1	336.1	339.1
55°	306.1	298.5	298.0	288.0	294.0
57.5°	264.5	254.5	251.0	248.0	255.0
60°	231.0	213.0	208.0	212.5	222.0
62.5°	203.5	180.5	171.0	182.5	191.0
65°	174.5	153.5	138.0	159.5	168.5
67.5°	152.0	132.0	112.0	142.5	149.0
70°	131.0	115.5	92.5	129.5	134.5
72.5°	114.0	102.0	80.0	117.0	123.0
75°	99.0	89.0	74.0	103.5	113.0
77.5°	87.0	76.0	69.0	89.5	101.0
80°	73.5	62.5	62.5	75.0	85.5
82.5°	58.0	49.0	50.5	61.0	68.5
85°	38.5	36.0	34.0	44.5	48.5
87.5°	19.5	20.0	18.0	23.0	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)