

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: P292172

Luminaire Tested: **22GR-LD5-24-A-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292172
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-L82765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2428.0 lumens
Efficiency: N/A
Efficacy: 132.5 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

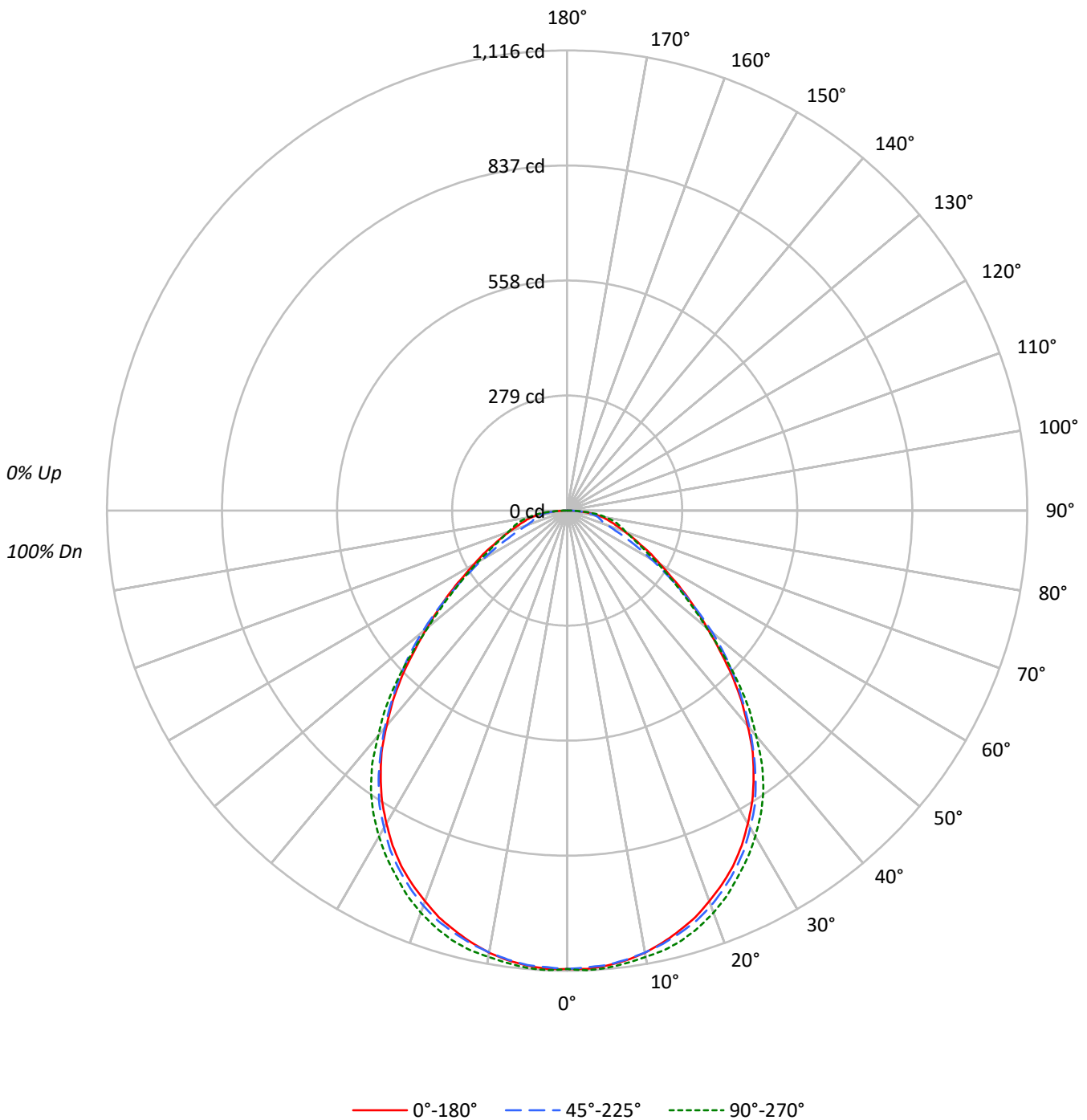
Input Watts (W): 18.321
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2992	2992	2992
5°	2993	2988	3007
10°	2975	2973	3003
15°	2937	2953	3005
20°	2887	2920	2972
25°	2825	2857	2909
30°	2723	2760	2835
35°	2589	2619	2725
40°	2394	2419	2505
45°	2150	2189	2223
50°	1859	1925	1840
55°	1622	1580	1559
60°	1405	1265	1350
65°	1256	993	1212
70°	1164	822	1196
75°	1163	869	1328
80°	1288	1094	1497
85°	1343	1186	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	4.3
10°-20°	299.7	12.3
20°-30°	443.2	18.3
30°-40°	500.2	20.6
40°-50°	440.9	18.2
50°-60°	302.5	12.5
60°-70°	178.5	7.4
70°-80°	111.4	4.6
80°-90°	46.4	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°	848.1	34.9
0°-40°	1348.3	55.5
0°-60°	2091.7	86.1
0°-90°	2428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2428.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1108	1106	1106	1110	1113	105
15°	1054	1055	1060	1073	1079	297
25°	952	955	962	975	980	437
35°	788	795	797	816	829	491
45°	565	568	575	579	584	434
55°	346	337	337	325	332	310
65°	197	174	156	180	190	199
75°	112	101	84	117	128	120
85°	44	41	38	50	55	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1111.9	1111.9	1111.9	1111.9	<i>1111.9</i>
2.5°	<i>1112.5</i>	<i>1109.7</i>	<i>1108.5</i>	<i>1113.1</i>	<i>1115.9</i>
5°	1108.0	1105.7	1106.3	1110.2	<i>1113.1</i>
7.5°	1100.1	1098.4	1098.4	1104.0	<i>1106.9</i>
10°	1088.8	1088.2	1088.2	1095.0	<i>1098.9</i>
12.5°	1073.0	1073.5	1075.8	1084.8	<i>1091.6</i>
15°	1054.3	1055.4	1060.0	1073.0	<i>1078.6</i>
17.5°	1034.0	1034.0	1043.0	1053.2	<i>1060.0</i>
20°	1008.0	1009.7	1019.8	1031.1	<i>1037.9</i>
22.5°	981.4	984.2	992.7	1005.7	<i>1011.9</i>
25°	951.5	954.9	962.2	974.6	<i>979.7</i>
27.5°	916.4	921.0	928.9	937.9	<i>948.6</i>
30°	876.3	883.1	888.2	900.6	<i>912.5</i>
32.5°	835.6	841.9	847.5	860.5	<i>874.1</i>
35°	788.2	795.0	797.2	816.4	<i>829.4</i>
37.5°	739.6	742.4	743.6	762.8	<i>776.9</i>
40°	681.4	687.0	688.7	704.0	<i>713.0</i>
42.5°	625.5	627.7	631.1	642.4	<i>653.1</i>
45°	565.0	567.8	575.2	578.6	<i>584.2</i>
47.5°	501.7	510.2	518.7	507.9	<i>508.5</i>
50°	444.1	450.9	459.9	439.6	<i>439.6</i>
52.5°	392.7	396.1	396.6	379.7	<i>383.1</i>
55°	345.8	337.3	336.7	325.4	<i>332.2</i>
57.5°	298.9	287.6	283.6	280.2	<i>288.2</i>
60°	261.0	240.7	235.0	240.1	<i>250.9</i>
62.5°	230.0	204.0	193.2	206.2	<i>215.8</i>
65°	197.2	173.5	155.9	180.2	<i>190.4</i>
67.5°	171.8	149.2	126.6	161.0	<i>168.4</i>
70°	148.0	130.5	104.5	146.3	<i>152.0</i>
72.5°	128.8	115.3	90.4	132.2	<i>139.0</i>
75°	111.9	100.6	83.6	117.0	<i>127.7</i>
77.5°	98.3	85.9	78.0	101.1	<i>114.1</i>
80°	83.1	70.6	70.6	84.8	<i>96.6</i>
82.5°	65.5	55.4	57.1	68.9	<i>77.4</i>
85°	43.5	40.7	38.4	50.3	<i>54.8</i>
87.5°	22.0	22.6	20.3	26.0	<i>26.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)