

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: P292176

Luminaire Tested: **22GR-LD5-24-A-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292176
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-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2536.0 lumens
Efficiency: N/A
Efficacy: 136.3 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

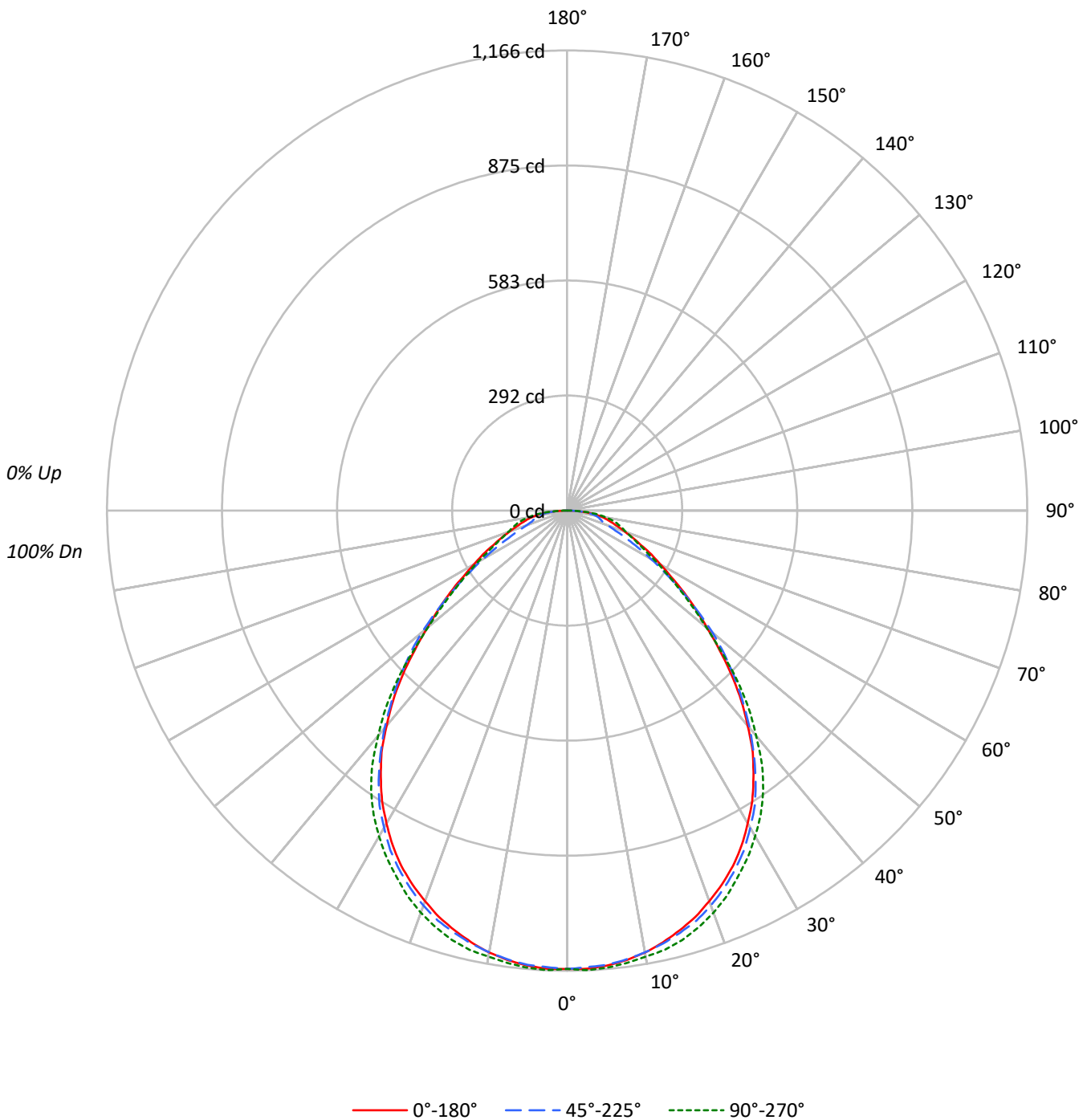
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292176

CATALOG NUMBER: 22GR-LD5-24-A-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P292176

CATALOG NUMBER: 22GR-LD5-24-A-UNV-L82765-W2A1-U-5700K

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°	3125	3125	3125
5°	3126	3121	3140
10°	3107	3106	3136
15°	3068	3084	3139
20°	3015	3050	3105
25°	2951	2984	3038
30°	2844	2883	2962
35°	2704	2735	2846
40°	2500	2527	2616
45°	2246	2286	2322
50°	1942	2011	1922
55°	1695	1650	1628
60°	1467	1321	1410
65°	1312	1037	1266
70°	1216	859	1249
75°	1214	908	1387
80°	1345	1144	1564
85°	1402	1238	1766



TEST NUMBER: P292176

CATALOG NUMBER: 22GR-LD5-24-A-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	4.3
10°-20°	313.0	12.3
20°-30°	462.9	18.3
30°-40°	522.4	20.6
40°-50°	460.5	18.2
50°-60°	315.9	12.5
60°-70°	186.4	7.4
70°-80°	116.3	4.6
80°-90°	48.5	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°	885.9	34.9
0°-40°	1408.3	55.5
0°-60°	2184.7	86.1
0°-90°	2536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2536.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1161	1161	1161	1161	1161	
5°	1157	1155	1156	1160	1163	110
15°	1101	1102	1107	1121	1127	310
25°	994	997	1005	1018	1023	456
35°	823	830	833	853	866	513
45°	590	593	601	604	610	453
55°	361	352	352	340	347	324
65°	206	181	163	188	199	207
75°	117	105	87	122	133	125
85°	45	42	40	52	57	49
90°	0	0	0	0	0	



TEST NUMBER: P292176

CATALOG NUMBER: 22GR-LD5-24-A-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1161.4	1161.4	1161.4	1161.4	1161.4
2.5°	1162.0	1159.0	1157.9	1162.6	1165.5
5°	1157.3	1154.9	1155.5	1159.6	1162.6
7.5°	1149.0	1147.2	1147.2	1153.1	1156.1
10°	1137.2	1136.6	1136.6	1143.7	1147.8
12.5°	1120.7	1121.3	1123.6	1133.1	1140.2
15°	1101.2	1102.4	1107.1	1120.7	1126.6
17.5°	1080.0	1080.0	1089.4	1100.0	1107.1
20°	1052.8	1054.6	1065.2	1077.0	1084.1
22.5°	1025.1	1028.0	1036.9	1050.4	1056.9
25°	993.8	997.3	1005.0	1018.0	1023.3
27.5°	957.2	961.9	970.2	979.6	990.8
30°	915.3	922.4	927.7	940.7	953.1
32.5°	872.8	879.3	885.2	898.8	912.9
35°	823.2	830.3	832.7	852.8	866.3
37.5°	772.5	775.4	776.6	796.7	811.4
40°	711.7	717.6	719.4	735.3	744.8
42.5°	653.3	655.6	659.2	671.0	682.2
45°	590.1	593.1	600.8	604.3	610.2
47.5°	524.0	532.9	541.7	530.5	531.1
50°	463.9	470.9	480.4	459.1	459.1
52.5°	410.1	413.7	414.3	396.6	400.1
55°	361.2	352.3	351.7	339.9	347.0
57.5°	312.2	300.4	296.3	292.7	301.0
60°	272.6	251.4	245.5	250.8	262.0
62.5°	240.2	213.0	201.8	215.4	225.4
65°	206.0	181.2	162.9	188.3	198.9
67.5°	179.4	155.8	132.2	168.2	175.9
70°	154.6	136.3	109.2	152.8	158.7
72.5°	134.6	120.4	94.4	138.1	145.2
75°	116.8	105.0	87.3	122.2	133.4
77.5°	102.7	89.7	81.4	105.6	119.2
80°	86.8	73.8	73.8	88.5	100.9
82.5°	68.5	57.8	59.6	72.0	80.8
85°	45.4	42.5	40.1	52.5	57.2
87.5°	23.0	23.6	21.2	27.1	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)