

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: P292167

Luminaire Tested: **22GR-LD5-20-A-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292167
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-LD5-20-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: 2161.0 lumens
Efficiency: N/A
Efficacy: 135.9 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

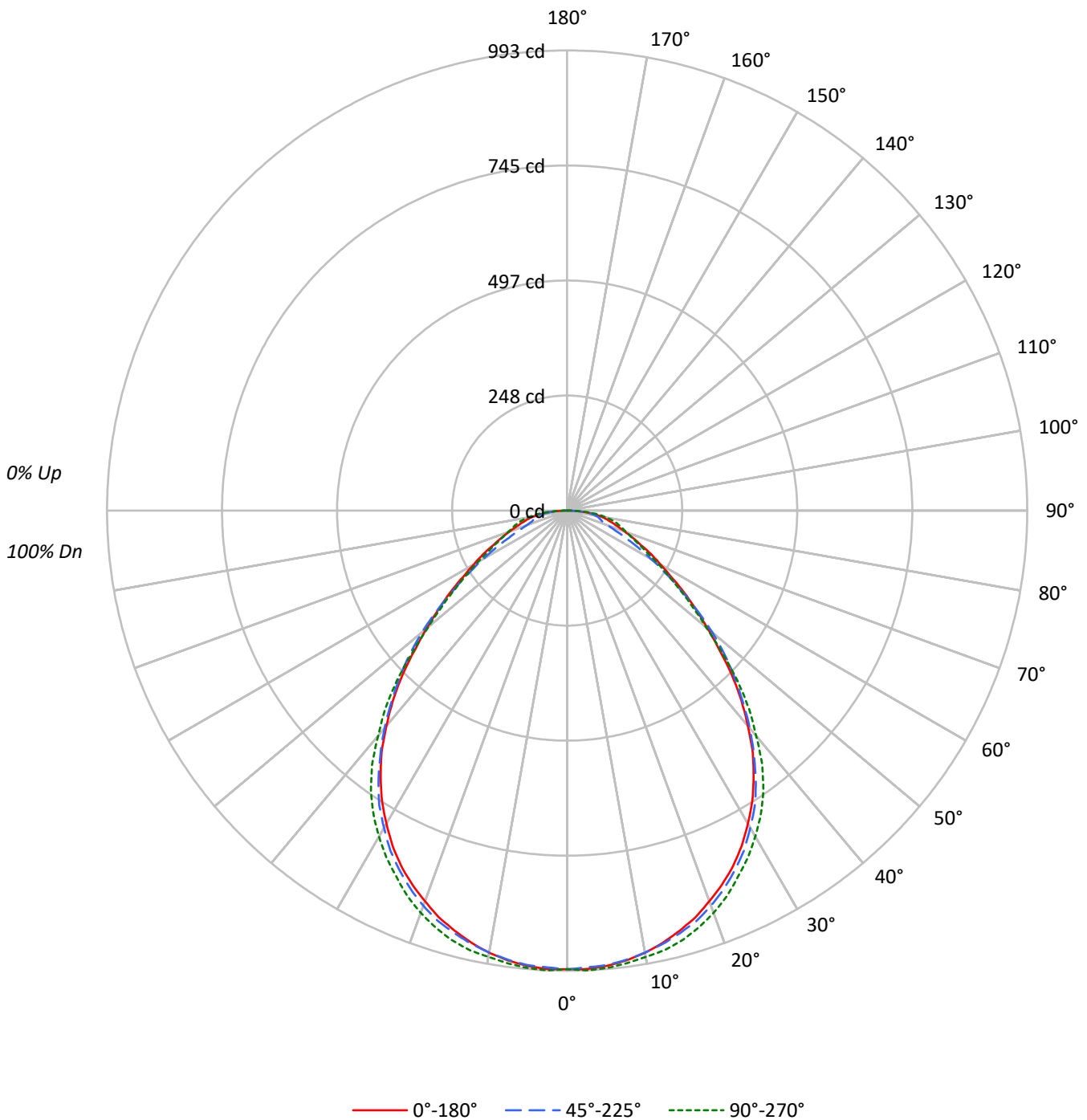
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2663	2663	2663
5°	2664	2660	2676
10°	2648	2646	2673
15°	2614	2628	2674
20°	2569	2599	2645
25°	2514	2543	2589
30°	2424	2456	2523
35°	2304	2331	2425
40°	2131	2153	2229
45°	1914	1948	1979
50°	1655	1714	1638
55°	1444	1406	1387
60°	1250	1126	1202
65°	1117	884	1079
70°	1037	732	1065
75°	1036	774	1181
80°	1145	975	1333
85°	1195	1056	1507



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	4.3
10°-20°	266.7	12.3
20°-30°	394.5	18.3
30°-40°	445.2	20.6
40°-50°	392.4	18.2
50°-60°	269.2	12.5
60°-70°	158.9	7.4
70°-80°	99.1	4.6
80°-90°	41.3	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°	754.9	34.9
0°-40°	1200.1	55.5
0°-60°	1861.7	86.1
0°-90°	2161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2161.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	990	990	990	990	990	
5°	986	984	985	988	991	94
15°	938	939	943	955	960	264
25°	847	850	856	868	872	389
35°	702	708	710	727	738	437
45°	503	505	512	515	520	386
55°	308	300	300	290	296	276
65°	176	154	139	160	170	177
75°	100	90	74	104	114	107
85°	39	36	34	45	49	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	989.7	989.7	989.7	989.7	989.7
2.5°	990.2	987.6	986.6	990.7	993.2
5°	986.1	984.1	984.6	988.2	990.7
7.5°	979.1	977.6	977.6	982.6	985.1
10°	969.0	968.5	968.5	974.6	978.1
12.5°	955.0	955.5	957.5	965.5	971.6
15°	938.4	939.4	943.4	955.0	960.0
17.5°	920.3	920.3	928.3	937.4	943.4
20°	897.1	898.6	907.7	917.7	923.8
22.5°	873.5	876.0	883.6	895.1	900.7
25°	846.8	849.9	856.4	867.5	872.0
27.5°	815.7	819.7	826.7	834.8	844.3
30°	780.0	786.0	790.5	801.6	812.1
32.5°	743.8	749.3	754.3	765.9	777.9
35°	701.5	707.5	709.6	726.7	738.2
37.5°	658.3	660.8	661.8	678.9	691.5
40°	606.5	611.5	613.0	626.6	634.6
42.5°	556.7	558.7	561.7	571.8	581.3
45°	502.9	505.4	511.9	514.9	520.0
47.5°	446.6	454.1	461.6	452.1	452.6
50°	395.3	401.3	409.3	391.2	391.2
52.5°	349.5	352.5	353.0	337.9	340.9
55°	307.8	300.2	299.7	289.7	295.7
57.5°	266.0	256.0	252.4	249.4	256.5
60°	232.3	214.2	209.2	213.7	223.3
62.5°	204.7	181.5	172.0	183.5	192.1
65°	175.5	154.4	138.8	160.4	169.5
67.5°	152.9	132.8	112.6	143.3	149.9
70°	131.8	116.2	93.0	130.2	135.3
72.5°	114.7	102.6	80.5	117.7	123.7
75°	99.6	89.5	74.4	104.1	113.6
77.5°	87.5	76.4	69.4	90.0	101.6
80°	73.9	62.9	62.9	75.4	86.0
82.5°	58.3	49.3	50.8	61.4	68.9
85°	38.7	36.2	34.2	44.8	48.8
87.5°	19.6	20.1	18.1	23.1	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)