

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: P292178

Luminaire Tested: **22GR-LD5-28-A-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292178
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-LD5-28-A-UNV-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2670.0 lumens
Efficiency: N/A
Efficacy: 121.1 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

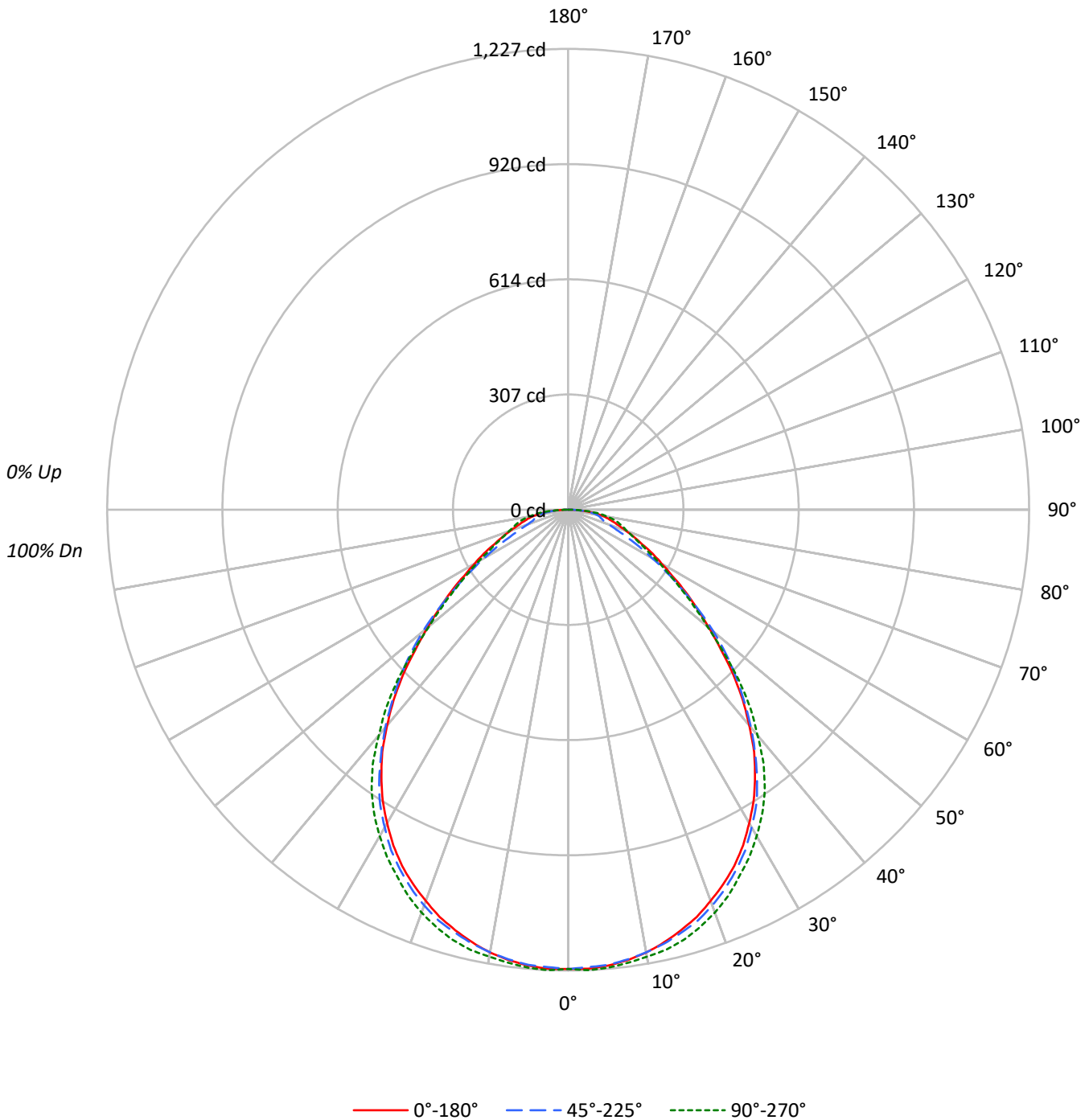
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3291	3291	3291
5°	3291	3286	3306
10°	3272	3270	3302
15°	3230	3247	3304
20°	3174	3212	3269
25°	3107	3142	3199
30°	2994	3035	3118
35°	2847	2880	2996
40°	2632	2661	2754
45°	2364	2407	2445
50°	2045	2117	2024
55°	1784	1737	1714
60°	1545	1391	1485
65°	1380	1092	1333
70°	1281	904	1315
75°	1279	957	1460
80°	1415	1204	1646
85°	1476	1303	1862



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	4.3
10°-20°	329.6	12.3
20°-30°	487.4	18.3
30°-40°	550.0	20.6
40°-50°	484.9	18.2
50°-60°	332.6	12.5
60°-70°	196.3	7.4
70°-80°	122.5	4.6
80°-90°	51.1	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°	932.7	34.9
0°-40°	1482.7	55.5
0°-60°	2300.2	86.1
0°-90°	2670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2670.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1223	1223	1223	1223	1223	
5°	1218	1216	1217	1221	1224	116
15°	1159	1161	1166	1180	1186	327
25°	1046	1050	1058	1072	1077	481
35°	867	874	877	898	912	540
45°	621	624	632	636	642	477
55°	380	371	370	358	365	341
65°	217	191	172	198	209	218
75°	123	111	92	129	140	132
85°	48	45	42	55	60	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1222.8	1222.8	1222.8	1222.8	1222.8
2.5°	1223.4	1220.3	1219.0	1224.0	1227.1
5°	1218.4	1215.9	1216.6	1220.9	1224.0
7.5°	1209.7	1207.9	1207.9	1214.1	1217.2
10°	1197.3	1196.7	1196.7	1204.1	1208.5
12.5°	1179.9	1180.5	1183.0	1192.9	1200.4
15°	1159.4	1160.6	1165.6	1179.9	1186.1
17.5°	1137.0	1137.0	1147.0	1158.1	1165.6
20°	1108.4	1110.3	1121.5	1133.9	1141.4
22.5°	1079.2	1082.3	1091.7	1106.0	1112.8
25°	1046.3	1050.0	1058.1	1071.8	1077.4
27.5°	1007.8	1012.8	1021.5	1031.4	1043.2
30°	963.7	971.1	976.7	990.4	1003.4
32.5°	918.9	925.8	932.0	946.3	961.2
35°	866.7	874.2	876.7	897.8	912.1
37.5°	813.3	816.4	817.7	838.8	854.3
40°	749.3	755.5	757.4	774.2	784.1
42.5°	687.8	690.3	694.0	706.4	718.2
45°	621.3	624.4	632.5	636.2	642.4
47.5°	551.7	561.1	570.4	558.6	559.2
50°	488.4	495.8	505.8	483.4	483.4
52.5°	431.8	435.5	436.2	417.5	421.3
55°	380.2	370.9	370.3	357.9	365.3
57.5°	328.7	316.3	311.9	308.2	316.9
60°	287.1	264.7	258.5	264.1	275.9
62.5°	252.9	224.3	212.5	226.8	237.3
65°	216.8	190.7	171.5	198.2	209.4
67.5°	188.9	164.0	139.2	177.1	185.2
70°	162.8	143.5	114.9	160.9	167.1
72.5°	141.7	126.7	99.4	145.4	152.8
75°	123.0	110.6	92.0	128.6	140.4
77.5°	108.1	94.4	85.7	111.2	125.5
80°	91.3	77.7	77.7	93.2	106.2
82.5°	72.1	60.9	62.8	75.8	85.1
85°	47.8	44.7	42.2	55.3	60.3
87.5°	24.2	24.9	22.4	28.6	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)