

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: P292280

Luminaire Tested: **22GR-LD5-28-A-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292280
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-L92765-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2636.0 lumens
Efficiency: N/A
Efficacy: 117.6 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

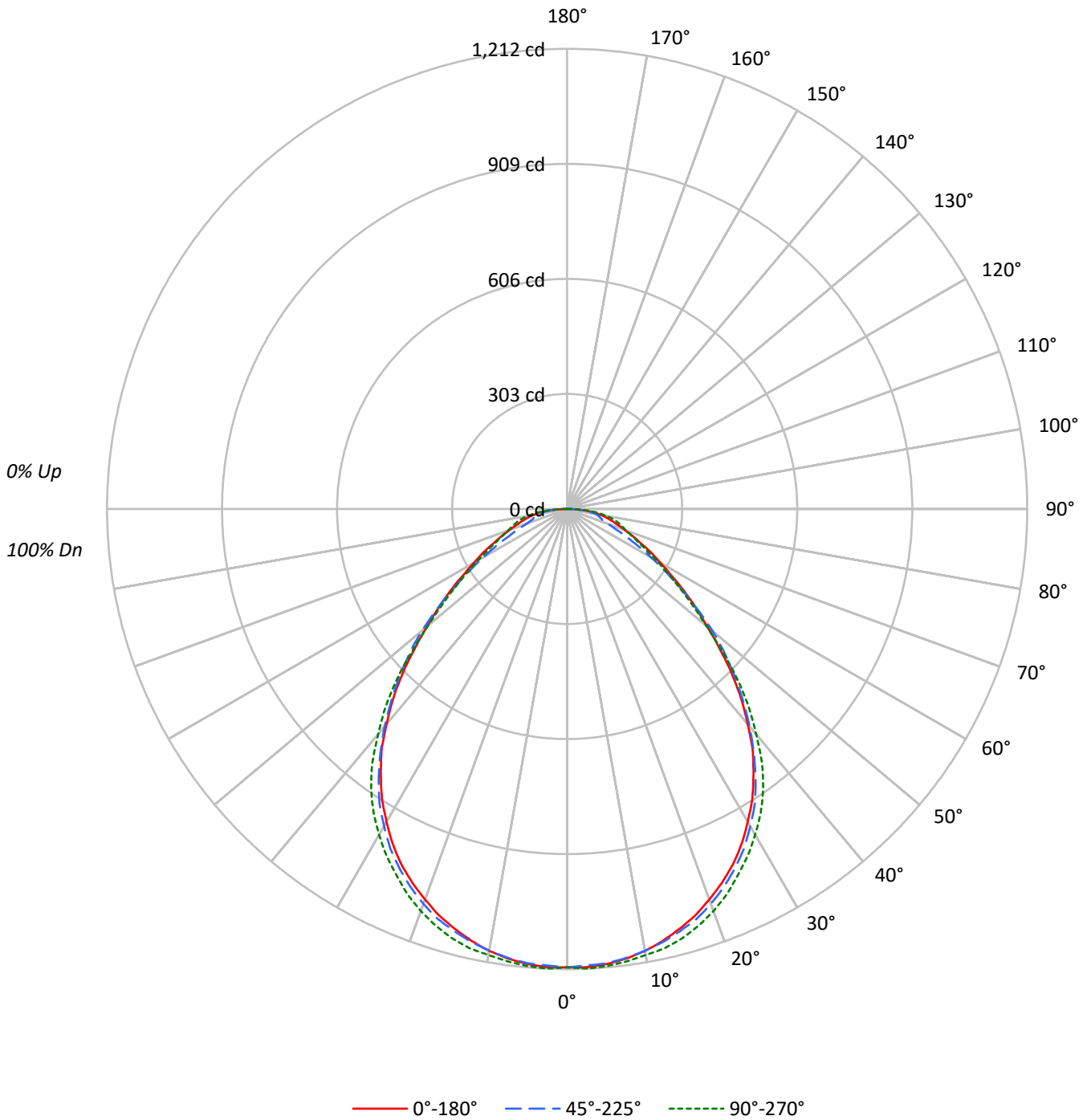
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3249	3249	3249
5°	3249	3244	3264
10°	3230	3228	3260
15°	3189	3206	3262
20°	3134	3171	3227
25°	3067	3102	3158
30°	2956	2996	3078
35°	2811	2843	2958
40°	2599	2627	2719
45°	2334	2377	2414
50°	2018	2090	1998
55°	1761	1715	1692
60°	1525	1373	1466
65°	1363	1078	1316
70°	1264	893	1298
75°	1263	944	1441
80°	1398	1189	1626
85°	1457	1288	1837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	4.3
10°-20°	325.4	12.3
20°-30°	481.2	18.3
30°-40°	543.0	20.6
40°-50°	478.7	18.2
50°-60°	328.4	12.5
60°-70°	193.8	7.4
70°-80°	120.9	4.6
80°-90°	50.4	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°	920.8	34.9
0°-40°	1463.8	55.5
0°-60°	2270.9	86.1
0°-90°	2636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1203	1200	1201	1205	1208	114
15°	1145	1146	1151	1165	1171	323
25°	1033	1037	1045	1058	1064	474
35°	856	863	866	886	900	533
45°	613	616	624	628	634	471
55°	375	366	366	353	361	337
65°	214	188	169	196	207	216
75°	122	109	91	127	139	130
85°	47	44	42	55	60	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1207.2	1207.2	1207.2	1207.2	1207.2
2.5°	1207.8	1204.7	1203.5	1208.4	1211.5
5°	1202.9	1200.4	1201.1	1205.4	1208.4
7.5°	1194.3	1192.5	1192.5	1198.6	1201.7
10°	1182.0	1181.4	1181.4	1188.8	1193.1
12.5°	1164.9	1165.5	1167.9	1177.7	1185.1
15°	1144.6	1145.9	1150.8	1164.9	1171.0
17.5°	1122.5	1122.5	1132.4	1143.4	1150.8
20°	1094.3	1096.2	1107.2	1119.5	1126.8
22.5°	1065.5	1068.6	1077.8	1091.9	1098.6
25°	1033.0	1036.7	1044.6	1058.1	1063.7
27.5°	995.0	999.9	1008.4	1018.3	1029.9
30°	951.4	958.8	964.3	977.8	990.7
32.5°	907.2	914.0	920.1	934.2	948.9
35°	855.7	863.1	865.5	886.4	900.5
37.5°	803.0	806.0	807.2	828.1	843.4
40°	739.8	745.9	747.7	764.3	774.1
42.5°	679.0	681.5	685.2	697.4	709.1
45°	613.4	616.5	624.5	628.1	634.3
47.5°	544.7	553.9	563.1	551.5	552.1
50°	482.1	489.5	499.3	477.2	477.2
52.5°	426.3	430.0	430.6	412.2	415.9
55°	375.4	366.2	365.6	353.3	360.7
57.5°	324.5	312.2	307.9	304.3	312.8
60°	283.4	261.3	255.2	260.7	272.4
62.5°	249.7	221.4	209.8	223.9	234.3
65°	214.1	188.3	169.3	195.7	206.7
67.5°	186.5	161.9	137.4	174.8	182.8
70°	160.7	141.7	113.5	158.9	165.0
72.5°	139.9	125.1	98.1	143.5	150.9
75°	121.5	109.2	90.8	127.0	138.6
77.5°	106.7	93.2	84.7	109.8	123.9
80°	90.2	76.7	76.7	92.0	104.9
82.5°	71.2	60.1	62.0	74.8	84.0
85°	47.2	44.2	41.7	54.6	59.5
87.5°	23.9	24.5	22.1	28.2	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)