

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: P292181

Luminaire Tested: **22GR-LD5-28-A-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292181
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-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: 2904.0 lumens
Efficiency: N/A
Efficacy: 130.1 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

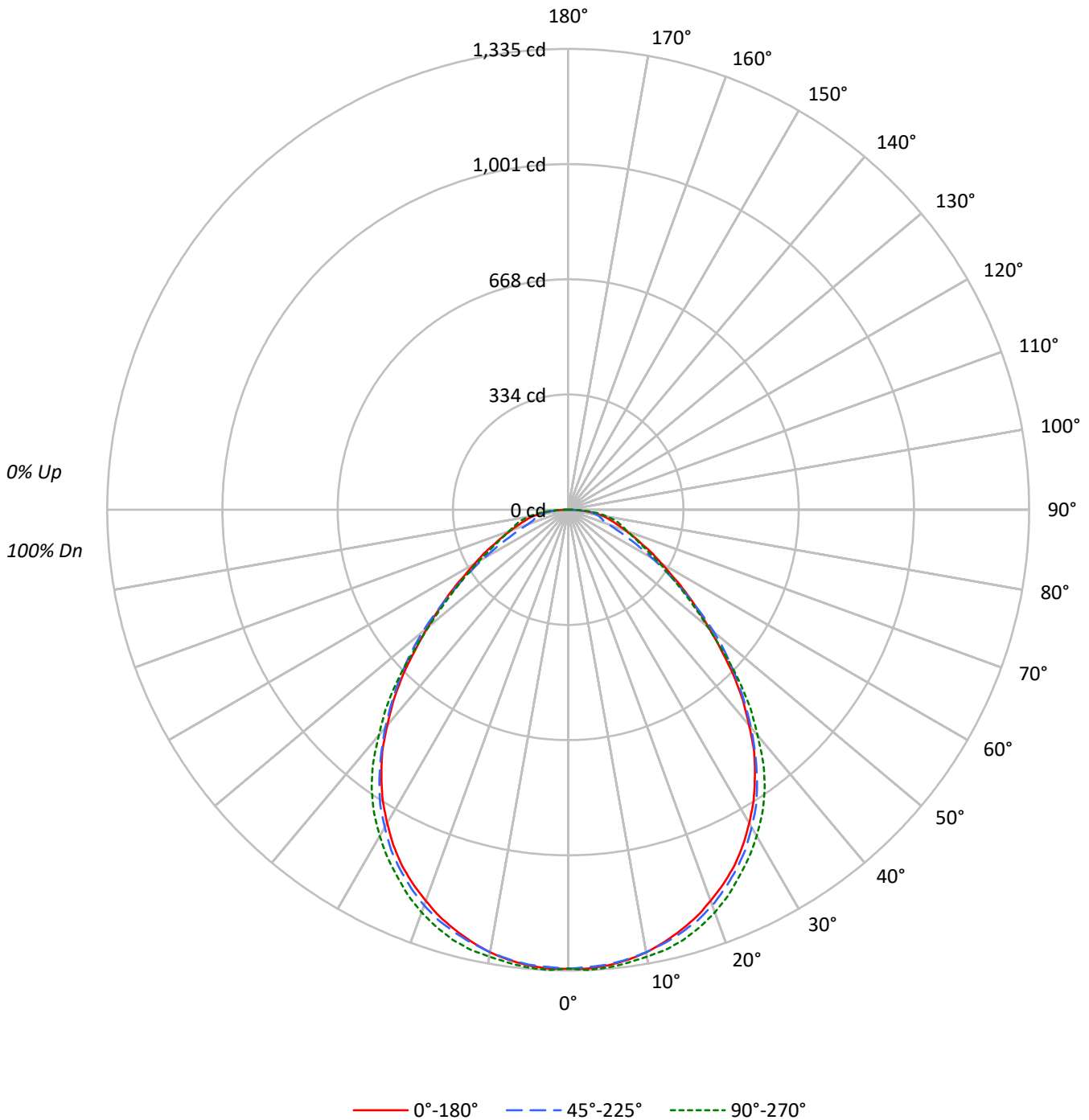
Input Watts (W): 22.32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3579	3579	3579
5°	3580	3574	3596
10°	3558	3556	3592
15°	3513	3532	3594
20°	3452	3493	3555
25°	3379	3417	3479
30°	3257	3301	3391
35°	3097	3132	3259
40°	2863	2894	2996
45°	2572	2618	2659
50°	2224	2303	2201
55°	1940	1890	1864
60°	1680	1513	1615
65°	1501	1188	1450
70°	1393	983	1430
75°	1391	1040	1588
80°	1539	1309	1791
85°	1606	1420	2025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	4.3
10°-20°	358.4	12.3
20°-30°	530.1	18.3
30°-40°	598.2	20.6
40°-50°	527.4	18.2
50°-60°	361.8	12.5
60°-70°	213.5	7.4
70°-80°	133.2	4.6
80°-90°	55.6	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°	1014.4	34.9
0°-40°	1612.6	55.5
0°-60°	2501.8	86.1
0°-90°	2904.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2904.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1330	1330	1330	1330	1330	
5°	1325	1322	1323	1328	1331	126
15°	1261	1262	1268	1283	1290	355
25°	1138	1142	1151	1166	1172	523
35°	943	951	954	976	992	587
45°	676	679	688	692	699	519
55°	414	403	403	389	397	371
65°	236	208	186	216	228	238
75°	134	120	100	140	153	144
85°	52	49	46	60	66	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1329.9	1329.9	1329.9	1329.9	1329.9
2.5°	1330.6	1327.2	1325.9	1331.3	1334.7
5°	1325.2	1322.5	1323.2	1327.9	1331.3
7.5°	1315.7	1313.7	1313.7	1320.5	1323.8
10°	1302.2	1301.5	1301.5	1309.7	1314.4
12.5°	1283.3	1284.0	1286.7	1297.5	1305.6
15°	1261.0	1262.3	1267.8	1283.3	1290.1
17.5°	1236.7	1236.7	1247.5	1259.6	1267.8
20°	1205.6	1207.6	1219.8	1233.3	1241.4
22.5°	1173.8	1177.2	1187.3	1202.9	1210.3
25°	1138.0	1142.1	1150.8	1165.7	1171.8
27.5°	1096.1	1101.5	1111.0	1121.8	1134.6
30°	1048.1	1056.2	1062.3	1077.2	1091.4
32.5°	999.5	1006.9	1013.7	1029.2	1045.4
35°	942.7	950.8	953.5	976.5	992.0
37.5°	884.6	888.0	889.3	912.3	929.2
40°	815.0	821.7	823.8	842.0	852.8
42.5°	748.1	750.8	754.8	768.4	781.2
45°	675.8	679.2	687.9	692.0	698.8
47.5°	600.1	610.2	620.4	607.5	608.2
50°	531.2	539.3	550.1	525.8	525.8
52.5°	469.7	473.7	474.4	454.1	458.2
55°	413.6	403.4	402.8	389.2	397.4
57.5°	357.5	344.0	339.2	335.2	344.6
60°	312.2	287.9	281.1	287.2	300.0
62.5°	275.0	244.0	231.1	246.7	258.1
65°	235.8	207.5	186.5	215.6	227.7
67.5°	205.4	178.4	151.4	192.6	201.4
70°	177.1	156.1	125.0	175.0	181.8
72.5°	154.1	137.9	108.1	158.1	166.2
75°	133.8	120.3	100.0	139.9	152.7
77.5°	117.6	102.7	93.3	121.0	136.5
80°	99.3	84.5	84.5	101.4	115.6
82.5°	78.4	66.2	68.3	82.4	92.6
85°	52.0	48.7	46.0	60.1	65.6
87.5°	26.4	27.0	24.3	31.1	31.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)