

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: P292473

Luminaire Tested: **22GR-LD5-28-A125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-A125-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2366.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

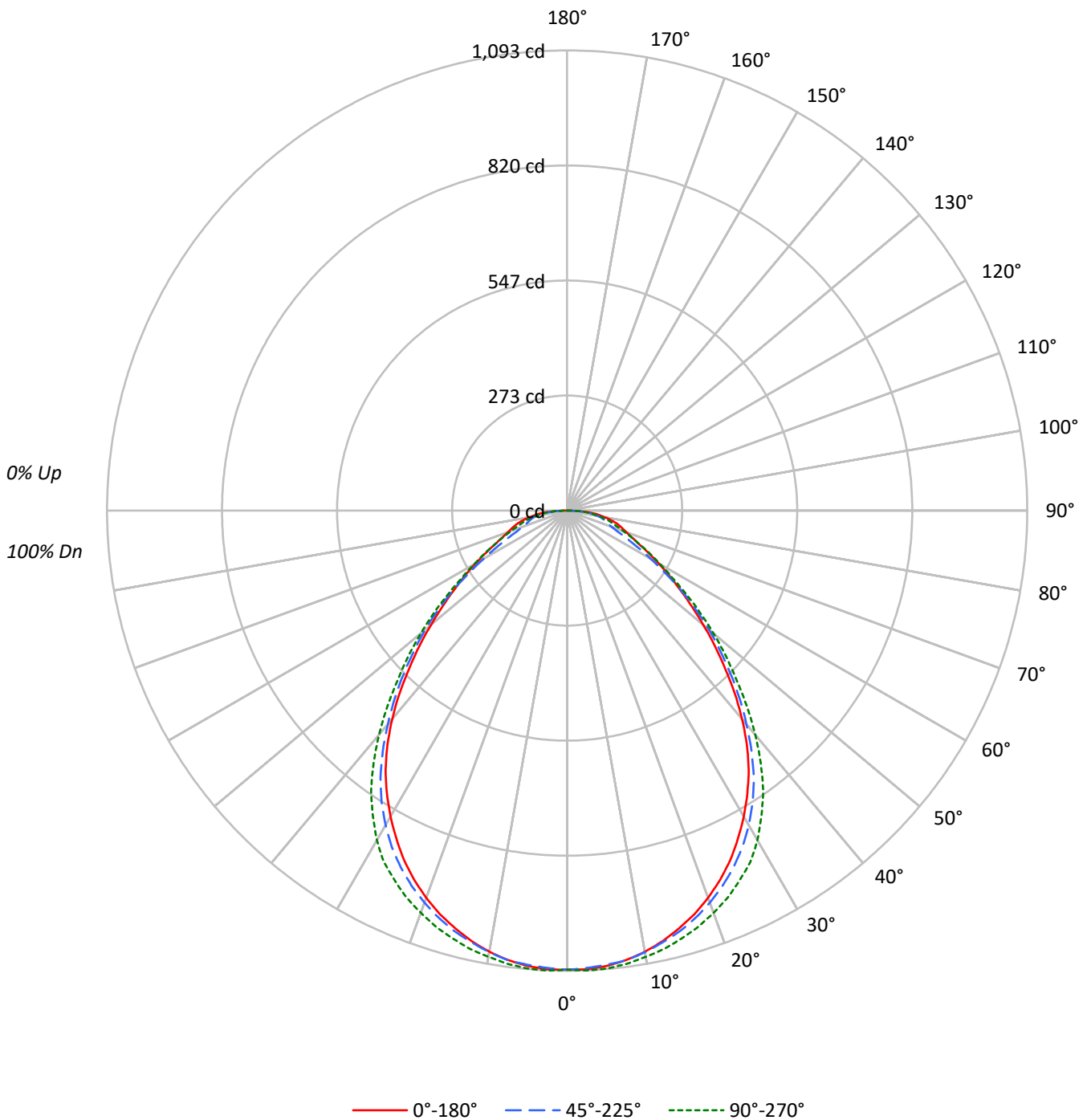
Input Watts (W): 21.855
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	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	52	46	41	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	34	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	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2935	2935	2935
5°	2932	2925	2949
10°	2908	2911	2941
15°	2862	2881	2931
20°	2802	2839	2912
25°	2721	2776	2878
30°	2607	2681	2810
35°	2470	2539	2667
40°	2271	2327	2444
45°	2017	2091	2167
50°	1762	1843	1899
55°	1532	1553	1610
60°	1348	1235	1375
65°	1198	987	1205
70°	1176	876	1111
75°	1285	964	1135
80°	1410	1145	1213
85°	1686	1328	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	4.4
10°-20°	292.3	12.4
20°-30°	431.5	18.2
30°-40°	482.9	20.4
40°-50°	424.0	17.9
50°-60°	300.0	12.7
60°-70°	174.6	7.4
70°-80°	108.9	4.6
80°-90°	48.7	2.1
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°	826.9	34.9
0°-40°	1309.7	55.4
0°-60°	2033.8	86.0
0°-90°	2366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2366.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1091	1091	1091	1091	1091	
5°	1086	1083	1083	1088	1092	103
15°	1027	1029	1034	1045	1052	289
25°	916	920	935	957	969	421
35°	752	755	773	796	812	468
45°	530	536	549	563	569	410
55°	327	333	331	337	343	295
65°	188	173	155	169	189	191
75°	124	106	93	95	109	129
85°	55	57	43	42	44	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1090.6	1088.4	1087.3	1091.2	1093.4
5°	1085.6	1082.9	1082.9	1088.4	1091.7
7.5°	1076.8	1074.1	1077.4	1082.3	1085.6
10°	1064.1	1063.0	1065.2	1071.9	1076.3
12.5°	1047.6	1048.1	1050.3	1060.8	1066.3
15°	1027.2	1029.4	1034.3	1045.4	1052.0
17.5°	1005.1	1006.8	1014.5	1027.2	1036.5
20°	978.6	981.9	991.3	1007.3	1016.7
22.5°	949.4	953.2	964.8	984.1	995.7
25°	916.3	920.1	935.0	957.1	969.2
27.5°	878.8	884.8	901.4	925.7	942.2
30°	839.1	844.0	862.8	890.4	904.2
32.5°	796.6	802.6	820.3	846.8	858.9
35°	751.9	755.2	772.9	796.0	812.0
37.5°	701.1	702.8	719.3	740.9	755.2
40°	646.5	647.6	662.5	682.9	695.6
42.5°	589.7	590.3	606.3	621.7	632.7
45°	530.1	536.2	549.4	562.7	569.3
47.5°	476.6	481.0	493.2	504.8	510.8
50°	420.9	431.9	440.2	446.3	453.5
52.5°	372.9	382.3	384.5	391.7	397.7
55°	326.6	333.2	331.0	337.1	343.1
57.5°	287.4	284.1	276.9	287.4	295.1
60°	250.4	241.6	229.5	243.8	255.4
62.5°	217.3	203.0	188.1	202.5	221.8
65°	188.1	173.2	155.0	168.8	189.2
67.5°	166.0	150.6	129.1	142.9	163.3
70°	149.5	133.5	111.4	123.0	141.2
72.5°	136.3	119.2	99.8	107.6	123.0
75°	123.6	106.5	92.7	94.9	109.2
77.5°	108.7	96.0	85.0	83.9	94.9
80°	91.0	87.2	73.9	72.3	78.3
82.5°	75.0	73.4	60.7	59.0	61.2
85°	54.6	56.8	43.0	41.9	44.1
87.5°	28.7	31.4	22.6	23.7	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)