

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: P292331

Luminaire Tested: **22GR-LD5-28-A125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292331
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-L83050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2745.0 lumens
Efficiency: N/A
Efficacy: 124.5 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

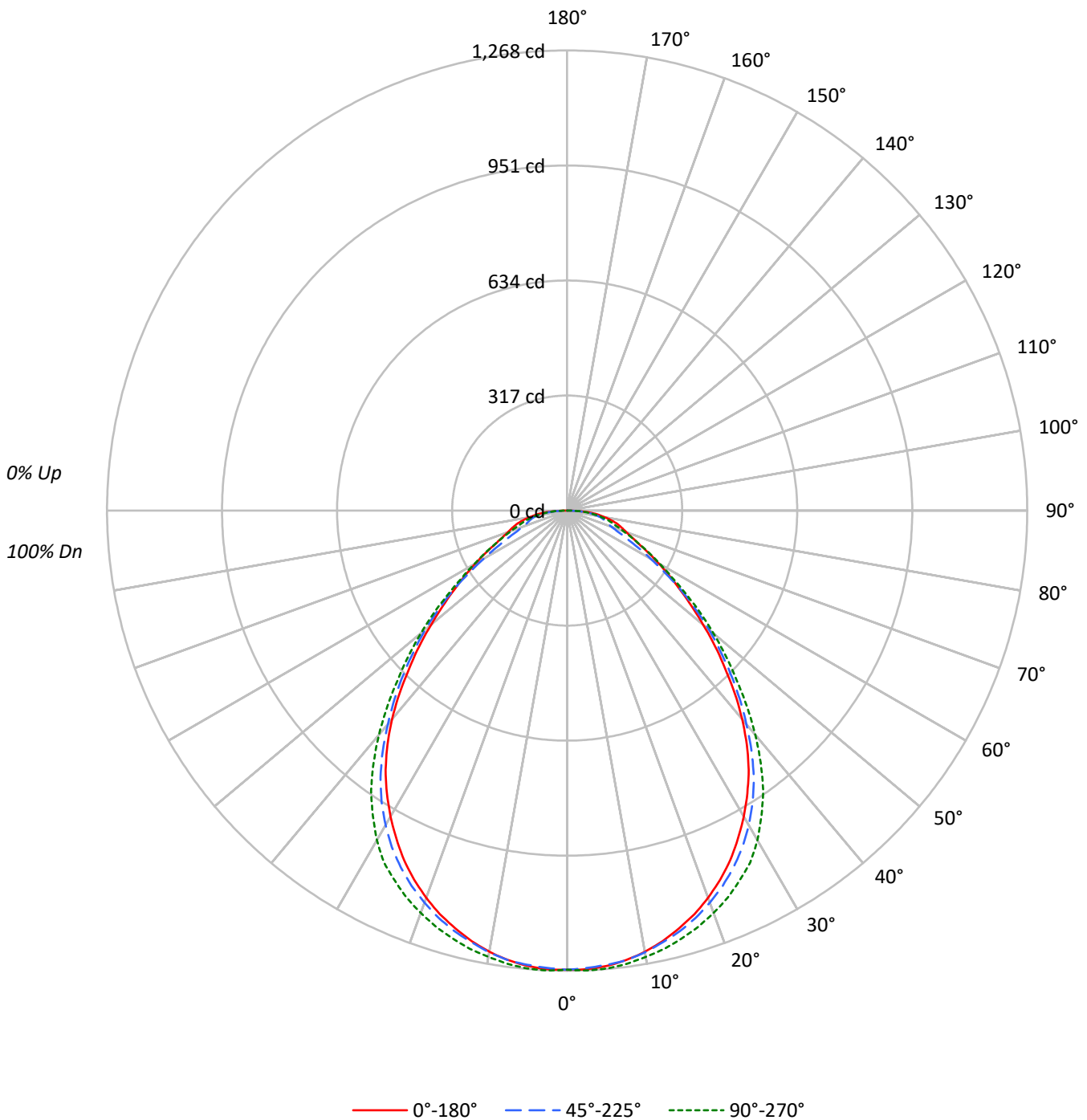
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3405	3405	3405
5°	3402	3394	3421
10°	3374	3377	3412
15°	3320	3343	3400
20°	3251	3294	3378
25°	3157	3221	3339
30°	3025	3110	3260
35°	2866	2946	3095
40°	2635	2700	2835
45°	2341	2426	2514
50°	2044	2138	2202
55°	1778	1802	1868
60°	1564	1433	1595
65°	1389	1145	1398
70°	1364	1017	1289
75°	1491	1118	1317
80°	1636	1330	1409
85°	1958	1541	1581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	4.4
10°-20°	339.1	12.4
20°-30°	500.6	18.2
30°-40°	560.2	20.4
40°-50°	492.0	17.9
50°-60°	348.1	12.7
60°-70°	202.6	7.4
70°-80°	126.3	4.6
80°-90°	56.5	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°	959.3	34.9
0°-40°	1519.6	55.4
0°-60°	2359.6	86.0
0°-90°	2745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2745.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1265	1265	1265	1265	1265	
5°	1260	1256	1256	1263	1267	119
15°	1192	1194	1200	1213	1220	336
25°	1063	1068	1085	1110	1124	488
35°	872	876	897	924	942	543
45°	615	622	638	653	660	476
55°	379	387	384	391	398	342
65°	218	201	180	196	220	221
75°	143	124	108	110	127	150
85°	63	66	50	49	51	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1265.3	1265.3	1265.3	1265.3	1265.3
2.5°	1265.3	1262.7	1261.5	1265.9	1268.5
5°	1259.5	1256.3	1256.3	1262.7	1266.6
7.5°	1249.3	1246.1	1249.9	1255.7	1259.5
10°	1234.6	1233.3	1235.9	1243.5	1248.7
12.5°	1215.4	1216.0	1218.6	1230.7	1237.1
15°	1191.7	1194.3	1200.0	1212.8	1220.5
17.5°	1166.1	1168.0	1177.0	1191.7	1202.6
20°	1135.4	1139.2	1150.1	1168.7	1179.5
22.5°	1101.5	1105.9	1119.4	1141.8	1155.2
25°	1063.1	1067.5	1084.8	1110.4	1124.5
27.5°	1019.5	1026.6	1045.8	1073.9	1093.1
30°	973.5	979.2	1001.0	1033.0	1049.0
32.5°	924.2	931.2	951.7	982.4	996.5
35°	872.3	876.2	896.7	923.5	942.1
37.5°	813.5	815.4	834.6	859.5	876.2
40°	750.1	751.4	768.7	792.3	807.1
42.5°	684.2	684.8	703.4	721.3	734.1
45°	615.1	622.1	637.5	652.8	660.5
47.5°	553.0	558.1	572.2	585.6	592.7
50°	488.3	501.1	510.7	517.8	526.1
52.5°	432.6	443.5	446.1	454.4	461.5
55°	378.9	386.6	384.0	391.0	398.1
57.5°	333.4	329.6	321.3	333.4	342.4
60°	290.6	280.3	266.2	282.9	296.3
62.5°	252.2	235.5	218.2	234.9	257.3
65°	218.2	201.0	179.8	195.8	219.5
67.5°	192.6	174.7	149.8	165.8	189.4
70°	173.4	154.9	129.3	142.7	163.8
72.5°	158.1	138.2	115.8	124.8	142.7
75°	143.4	123.5	107.5	110.1	126.7
77.5°	126.1	111.4	98.6	97.3	110.1
80°	105.6	101.1	85.8	83.8	90.9
82.5°	87.0	85.1	70.4	68.5	71.0
85°	63.4	65.9	49.9	48.6	51.2
87.5°	33.3	36.5	26.2	27.5	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)