

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: P292444

Luminaire Tested: **22GR-LD5-40-A125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292444  
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-LD5-40-A125-UNV-L93050-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: 3158.0 lumens  
Efficiency: N/A  
Efficacy: 95.4 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

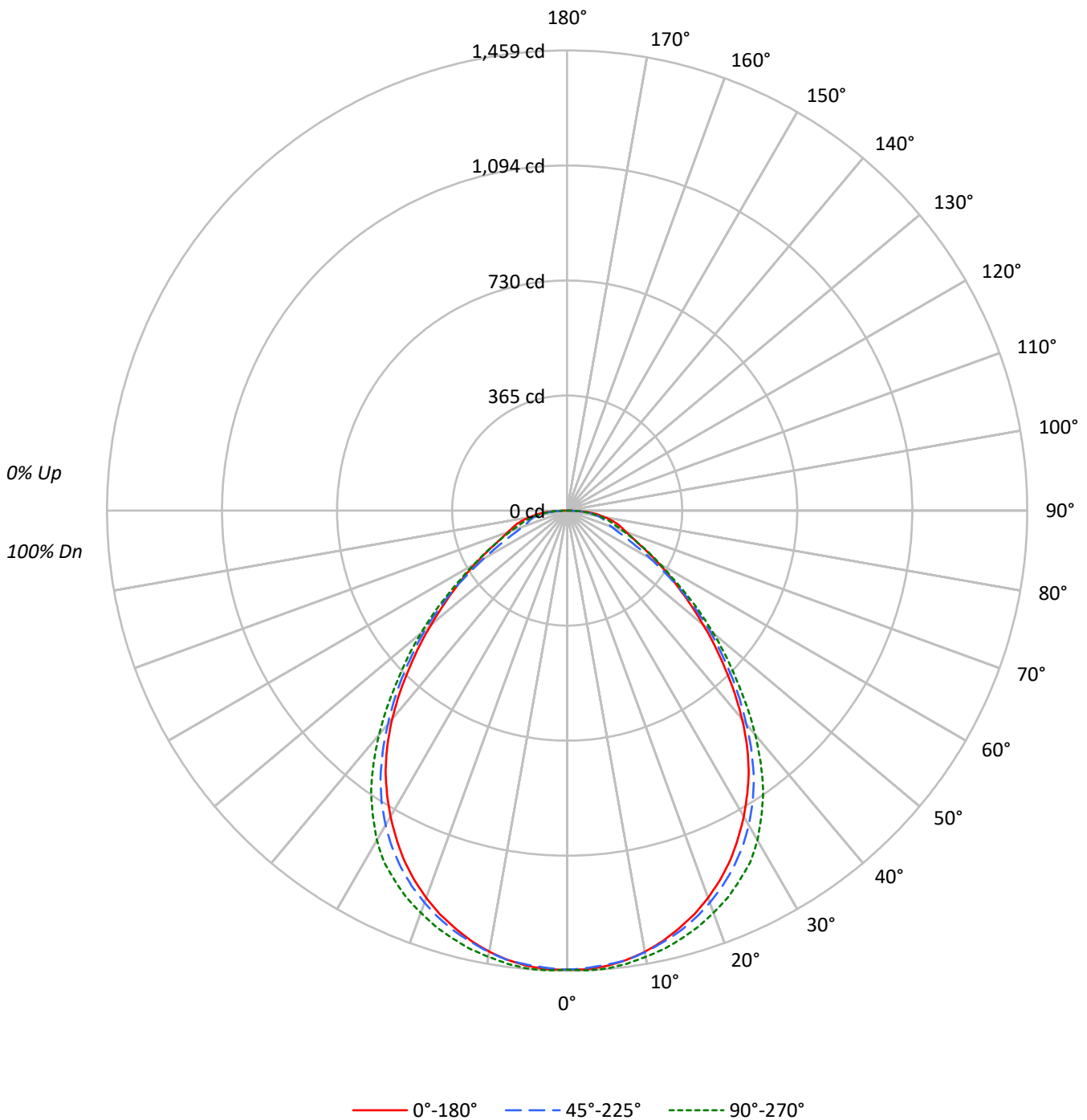
Input Watts (W): 33.108  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3917	3917	3917
5°	3914	3904	3936
10°	3881	3885	3925
15°	3819	3846	3912
20°	3741	3789	3886
25°	3631	3706	3841
30°	3480	3578	3750
35°	3297	3389	3560
40°	3032	3106	3262
45°	2693	2791	2892
50°	2352	2460	2534
55°	2045	2073	2149
60°	1799	1648	1835
65°	1599	1317	1608
70°	1570	1170	1483
75°	1714	1286	1516
80°	1883	1530	1621
85°	2251	1772	1819



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.6	4.4
10°-20°	390.2	12.4
20°-30°	576.0	18.2
30°-40°	644.5	20.4
40°-50°	566.0	17.9
50°-60°	400.5	12.7
60°-70°	233.1	7.4
70°-80°	145.3	4.6
80°-90°	65.0	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°	1103.7	34.9
0°-40°	1748.2	55.4
0°-60°	2714.6	86.0
0°-90°	3158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3158.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1449	1445	1445	1453	1457	137
15°	1371	1374	1381	1395	1404	386
25°	1223	1228	1248	1278	1294	562
35°	1004	1008	1032	1062	1084	624
45°	708	716	733	751	760	547
55°	436	445	442	450	458	394
65°	251	231	207	225	253	255
75°	165	142	124	127	146	172
85°	73	76	57	56	59	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1455.7	1455.7	1455.7	1455.7	1455.7
2.5°	1455.7	1452.7	1451.3	1456.4	1459.4
5°	1449.1	1445.4	1445.4	1452.7	1457.2
7.5°	1437.3	1433.6	1438.0	1444.6	1449.1
10°	1420.3	1418.9	1421.8	1430.6	1436.5
12.5°	1398.2	1399.0	1401.9	1415.9	1423.3
15°	1371.0	1374.0	1380.6	1395.3	1404.1
17.5°	1341.6	1343.8	1354.1	1371.0	1383.5
20°	1306.2	1310.6	1323.1	1344.5	1357.0
22.5°	1267.2	1272.3	1287.8	1313.6	1329.0
25°	1223.0	1228.2	1248.0	1277.5	1293.7
27.5°	1172.9	1181.0	1203.1	1235.5	1257.6
30°	1119.9	1126.6	1151.6	1188.4	1206.8
32.5°	1063.2	1071.3	1094.9	1130.2	1146.4
35°	1003.6	1008.0	1031.6	1062.5	1083.8
37.5°	935.8	938.1	960.1	988.9	1008.0
40°	863.0	864.4	884.3	911.5	928.5
42.5°	787.1	787.8	809.2	829.8	844.5
45°	707.6	715.7	733.4	751.0	759.9
47.5°	636.2	642.1	658.3	673.7	681.8
50°	561.8	576.5	587.6	595.7	605.2
52.5°	497.7	510.3	513.2	522.8	530.9
55°	435.9	444.7	441.8	449.9	458.0
57.5°	383.6	379.2	369.6	383.6	393.9
60°	334.3	322.5	306.3	325.4	340.9
62.5°	290.1	271.0	251.1	270.2	296.0
65°	251.1	231.2	206.9	225.3	252.6
67.5°	221.6	201.0	172.3	190.7	217.9
70°	199.5	178.2	148.7	164.2	188.5
72.5°	181.9	159.0	133.3	143.6	164.2
75°	164.9	142.1	123.7	126.6	145.8
77.5°	145.1	128.1	113.4	111.9	126.6
80°	121.5	116.3	98.7	96.5	104.6
82.5°	100.1	97.9	81.0	78.8	81.7
85°	72.9	75.8	57.4	56.0	58.9
87.5°	38.3	42.0	30.2	31.7	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)