

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: P292425

Luminaire Tested: **22GR-LD5-24-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292425
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-LD5-24-A125-UNV-L93050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2064.0 lumens
Efficiency: N/A
Efficacy: 111.5 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

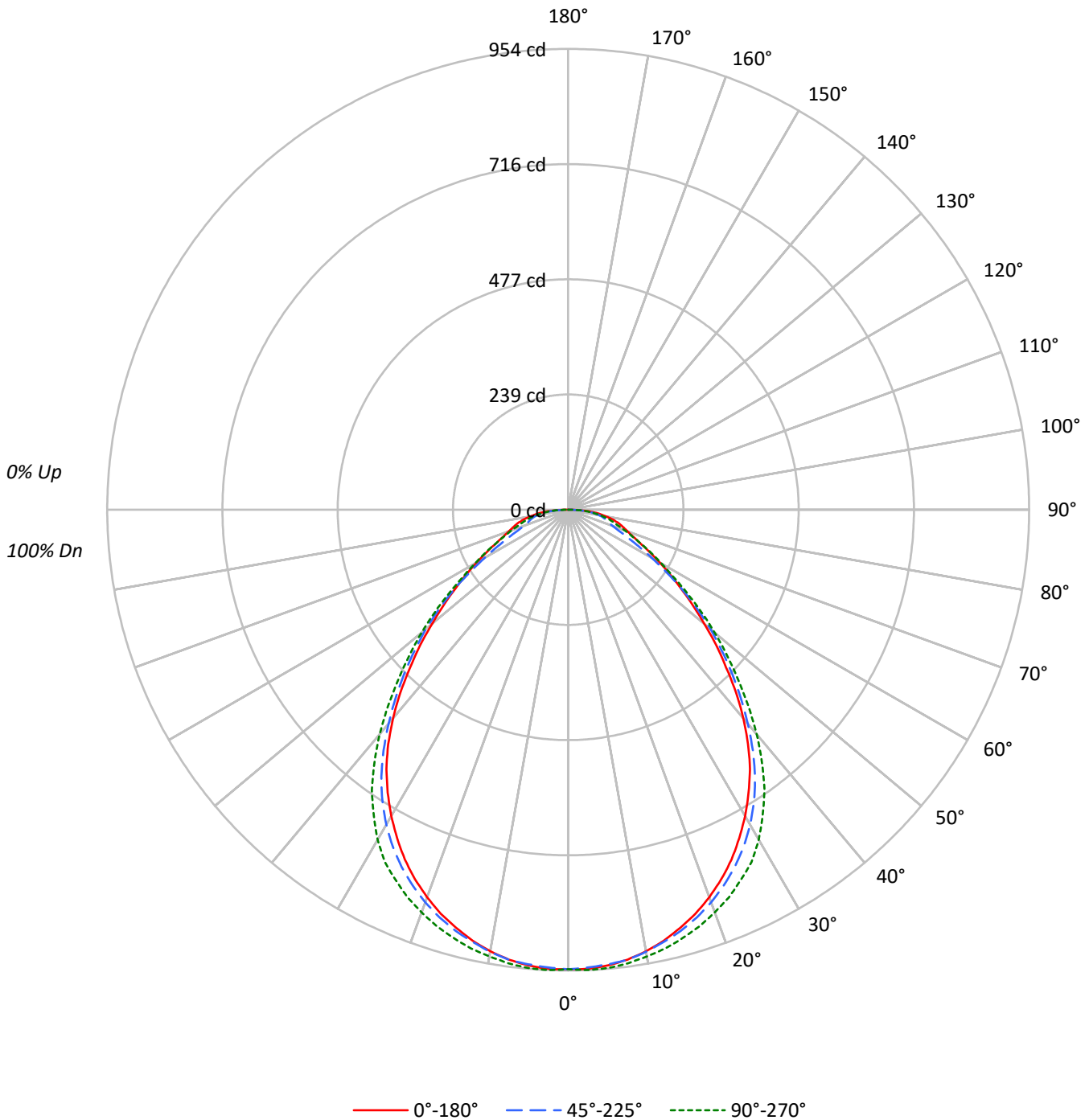
Input Watts (W): 18.507
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2560	2560	2560
5°	2558	2552	2573
10°	2537	2539	2566
15°	2496	2514	2557
20°	2445	2477	2540
25°	2373	2422	2510
30°	2275	2339	2451
35°	2155	2215	2327
40°	1981	2030	2132
45°	1760	1824	1890
50°	1537	1608	1656
55°	1337	1354	1404
60°	1176	1077	1199
65°	1045	861	1051
70°	1026	765	969
75°	1121	840	991
80°	1230	1000	1058
85°	1470	1158	1189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	4.4
10°-20°	255.0	12.4
20°-30°	376.4	18.2
30°-40°	421.2	20.4
40°-50°	369.9	17.9
50°-60°	261.7	12.7
60°-70°	152.4	7.4
70°-80°	94.9	4.6
80°-90°	42.5	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°	721.3	34.9
0°-40°	1142.6	55.4
0°-60°	1774.2	86.0
0°-90°	2064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	947	945	945	950	952	90
15°	896	898	902	912	918	252
25°	799	803	816	835	846	367
35°	656	659	674	694	708	408
45°	462	468	479	491	497	358
55°	285	291	289	294	299	257
65°	164	151	135	147	165	166
75°	108	93	81	83	95	113
85°	48	50	38	37	38	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	951.4	951.4	951.4	951.4	951.4
2.5°	951.4	949.5	948.5	951.9	953.8
5°	947.1	944.7	944.7	949.5	952.4
7.5°	939.4	937.0	939.9	944.2	947.1
10°	928.3	927.3	929.3	935.0	938.9
12.5°	913.9	914.3	916.3	925.4	930.2
15°	896.1	898.0	902.3	911.9	917.7
17.5°	876.8	878.3	885.0	896.1	904.2
20°	853.7	856.6	864.8	878.7	886.9
22.5°	828.2	831.6	841.7	858.5	868.6
25°	799.3	802.7	815.7	834.9	845.5
27.5°	766.6	771.9	786.3	807.5	821.9
30°	732.0	736.3	752.7	776.7	788.7
32.5°	694.9	700.2	715.6	738.7	749.3
35°	655.9	658.8	674.2	694.4	708.4
37.5°	611.6	613.1	627.5	646.3	658.8
40°	564.0	565.0	578.0	595.8	606.8
42.5°	514.4	514.9	528.9	542.4	552.0
45°	462.5	467.8	479.3	490.9	496.6
47.5°	415.8	419.6	430.2	440.3	445.6
50°	367.2	376.8	384.0	389.3	395.6
52.5°	325.3	333.5	335.4	341.7	347.0
55°	284.9	290.7	288.7	294.0	299.3
57.5°	250.7	247.8	241.6	250.7	257.5
60°	218.5	210.8	200.2	212.7	222.8
62.5°	189.6	177.1	164.1	176.6	193.5
65°	164.1	151.1	135.2	147.3	165.1
67.5°	144.9	131.4	112.6	124.6	142.4
70°	130.4	116.5	97.2	107.3	123.2
72.5°	118.9	103.9	87.1	93.8	107.3
75°	107.8	92.9	80.8	82.8	95.3
77.5°	94.8	83.7	74.1	73.1	82.8
80°	79.4	76.0	64.5	63.0	68.3
82.5°	65.4	64.0	52.9	51.5	53.4
85°	47.6	49.6	37.5	36.6	38.5
87.5°	25.0	27.4	19.7	20.7	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)