

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: P291979

Luminaire Tested: **22GR-LD5-24-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-F125-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2537.0 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

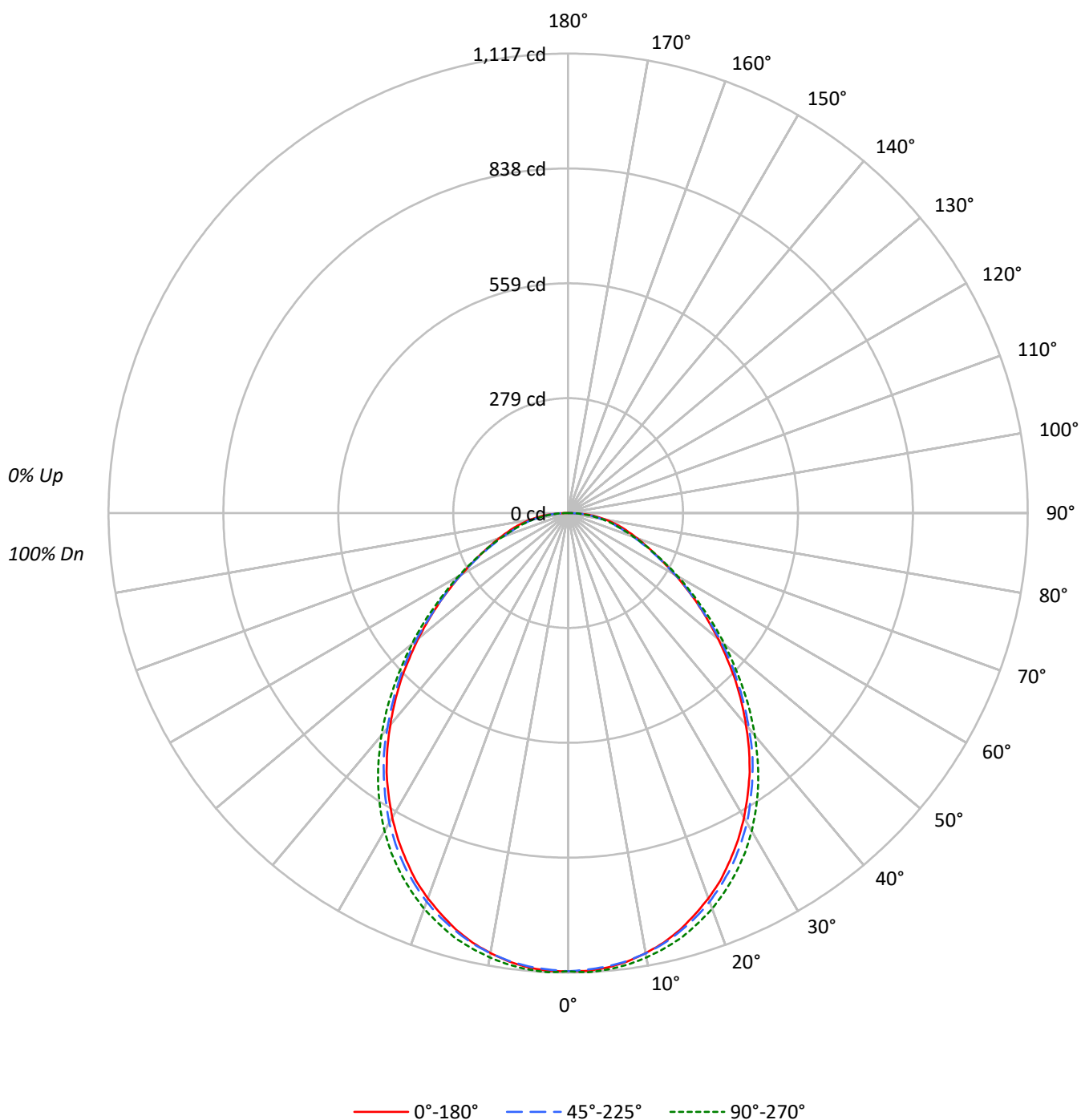
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	65	59	83	72	65	59	70	63	58		68	62	57		65
5	78	66	58	52	76	65	57	51	63	56	51		61	55	50		59
6	73	60	52	45	71	59	51	45	57	50	45		56	49	45		54
7	68	55	46	41	66	54	46	40	53	45	40		51	45	40		50
8	63	50	42	36	62	50	42	36	48	41	36		47	41	36		46
9	59	46	38	33	58	46	38	33	45	38	33		44	37	33		43
10	56	43	35	30	54	42	35	30	41	35	30		40	34	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2997	2997	2997
5°	2996	2988	3009
10°	2968	2969	2997
15°	2922	2932	2975
20°	2854	2879	2932
25°	2765	2803	2865
30°	2656	2702	2773
35°	2526	2566	2645
40°	2362	2401	2479
45°	2186	2220	2285
50°	1991	2023	2075
55°	1798	1803	1856
60°	1612	1619	1657
65°	1470	1439	1473
70°	1399	1320	1343
75°	1408	1273	1279
80°	1460	1286	1277
85°	1599	1362	1291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	4.1
10°-20°	297.2	11.7
20°-30°	435.1	17.1
30°-40°	489.1	19.3
40°-50°	451.1	17.8
50°-60°	347.7	13.7
60°-70°	229.4	9.0
70°-80°	133.5	5.3
80°-90°	48.6	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°	837.5	33.0
0°-40°	1326.7	52.3
0°-60°	2125.4	83.8
0°-90°	2537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2537.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1114	1114	1114	1114	1114	
5°	1109	1107	1106	1111	1114	105
15°	1049	1049	1052	1062	1068	295
25°	931	936	944	957	965	428
35°	769	772	781	797	805	479
45°	574	575	583	595	600	442
55°	383	383	384	391	396	344
65°	231	230	226	228	231	231
75°	135	130	122	120	123	143
85°	52	51	44	41	42	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1113.8	1113.8	1113.8	1113.8	1113.8
2.5°	1113.8	1111.4	1110.8	1114.9	1117.3
5°	1109.0	1106.7	1106.1	1111.4	1113.8
7.5°	1099.6	1097.9	1098.4	1104.3	1107.3
10°	1086.1	1085.5	1086.7	1093.2	1096.7
12.5°	1070.2	1069.6	1072.0	1079.0	1083.7
15°	1049.0	1049.0	1052.5	1062.0	1067.8
17.5°	1023.7	1025.5	1030.8	1040.2	1046.6
20°	996.6	998.4	1005.4	1016.0	1023.7
22.5°	966.6	968.9	976.0	989.0	995.4
25°	931.3	936.0	944.2	957.2	964.8
27.5°	894.8	900.1	907.7	923.6	930.7
30°	854.7	858.3	869.5	884.2	892.4
32.5°	812.4	815.9	825.3	843.0	850.0
35°	768.8	772.3	781.2	797.1	805.3
37.5°	721.7	724.6	735.2	747.6	756.4
40°	672.3	676.4	683.4	698.2	705.8
42.5°	624.0	625.8	633.4	648.1	654.0
45°	574.5	575.1	583.4	595.1	600.4
47.5°	523.3	524.5	534.5	541.6	546.9
50°	475.6	476.2	483.3	489.8	495.7
52.5°	428.0	428.0	431.5	438.6	446.2
55°	383.2	382.6	384.4	390.9	395.6
57.5°	340.8	340.2	342.6	346.7	350.3
60°	299.6	298.5	300.8	303.2	307.9
62.5°	263.1	264.3	261.4	264.9	268.4
65°	230.8	229.6	226.0	227.8	231.3
67.5°	203.1	201.3	195.4	196.6	200.7
70°	177.8	174.2	167.8	167.8	170.7
72.5°	154.8	151.3	143.0	143.6	144.8
75°	135.4	129.5	122.4	120.1	123.0
77.5°	114.2	109.5	103.0	101.3	102.4
80°	94.2	90.7	83.0	80.6	82.4
82.5°	74.8	71.8	63.0	61.2	61.8
85°	51.8	51.2	44.1	40.6	41.8
87.5°	27.7	28.3	23.0	20.6	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)