

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: P291969

Luminaire Tested: **22GR-LD5-20-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291969
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-LD5-20-F125-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2141.0 lumens
Efficiency: N/A
Efficacy: 135.4 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

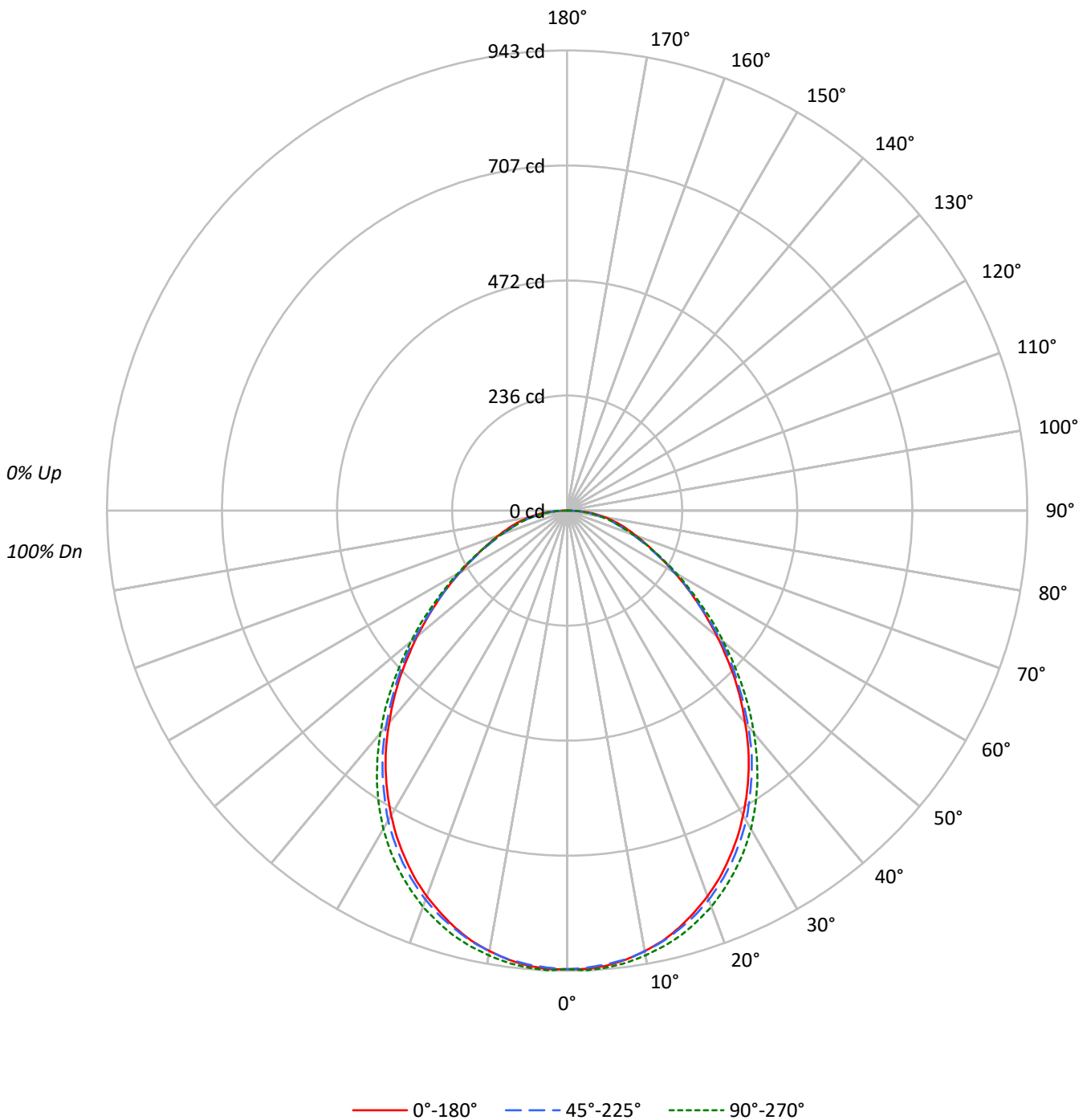
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2529	2529	2529
5°	2528	2521	2539
10°	2505	2506	2529
15°	2466	2474	2511
20°	2408	2430	2474
25°	2333	2366	2417
30°	2241	2280	2340
35°	2131	2166	2233
40°	1993	2026	2092
45°	1845	1874	1928
50°	1680	1708	1751
55°	1517	1522	1566
60°	1361	1366	1398
65°	1240	1215	1243
70°	1180	1114	1134
75°	1188	1074	1079
80°	1232	1085	1077
85°	1349	1152	1090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	4.1
10°-20°	250.8	11.7
20°-30°	367.1	17.1
30°-40°	412.8	19.3
40°-50°	380.7	17.8
50°-60°	293.4	13.7
60°-70°	193.6	9.0
70°-80°	112.7	5.3
80°-90°	41.1	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°	706.8	33.0
0°-40°	1119.6	52.3
0°-60°	1793.7	83.8
0°-90°	2141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	936	934	933	938	940	89
15°	885	885	888	896	901	249
25°	786	790	797	808	814	361
35°	649	652	659	673	680	405
45°	485	485	492	502	507	373
55°	323	323	324	330	334	290
65°	195	194	191	192	195	195
75°	114	109	103	101	104	120
85°	44	43	37	34	35	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	939.9	939.9	939.9	939.9	939.9
2.5°	939.9	937.9	937.4	940.9	942.9
5°	935.9	933.9	933.4	937.9	939.9
7.5°	928.0	926.5	927.0	932.0	934.4
10°	916.6	916.1	917.1	922.5	925.5
12.5°	903.1	902.6	904.6	910.6	914.6
15°	885.3	885.3	888.2	896.2	901.2
17.5°	863.9	865.4	869.9	877.8	883.3
20°	841.0	842.5	848.5	857.4	863.9
22.5°	815.7	817.7	823.7	834.6	840.1
25°	785.9	789.9	796.8	807.8	814.2
27.5°	755.1	759.6	766.0	779.4	785.4
30°	721.3	724.3	733.7	746.2	753.1
32.5°	685.6	688.5	696.5	711.4	717.4
35°	648.8	651.8	659.2	672.6	679.6
37.5°	609.1	611.5	620.5	630.9	638.4
40°	567.3	570.8	576.8	589.2	595.6
42.5°	526.6	528.1	534.5	547.0	551.9
45°	484.9	485.4	492.3	502.2	506.7
47.5°	441.6	442.6	451.1	457.0	461.5
50°	401.4	401.9	407.9	413.3	418.3
52.5°	361.2	361.2	364.1	370.1	376.6
55°	323.4	322.9	324.4	329.9	333.8
57.5°	287.6	287.1	289.1	292.6	295.6
60°	252.9	251.9	253.9	255.8	259.8
62.5°	222.1	223.1	220.6	223.6	226.5
65°	194.7	193.7	190.8	192.3	195.2
67.5°	171.4	169.9	164.9	165.9	169.4
70°	150.0	147.0	141.6	141.6	144.1
72.5°	130.7	127.7	120.7	121.2	122.2
75°	114.3	109.3	103.3	101.3	103.8
77.5°	96.4	92.4	86.9	85.4	86.4
80°	79.5	76.5	70.0	68.1	69.5
82.5°	63.1	60.6	53.2	51.7	52.2
85°	43.7	43.2	37.3	34.3	35.3
87.5°	23.3	23.8	19.4	17.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)