

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: P291932

Luminaire Tested: **22GR-LD5-20-F125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291932
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-L83050-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2204.0 lumens
Efficiency: N/A
Efficacy: 136.2 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

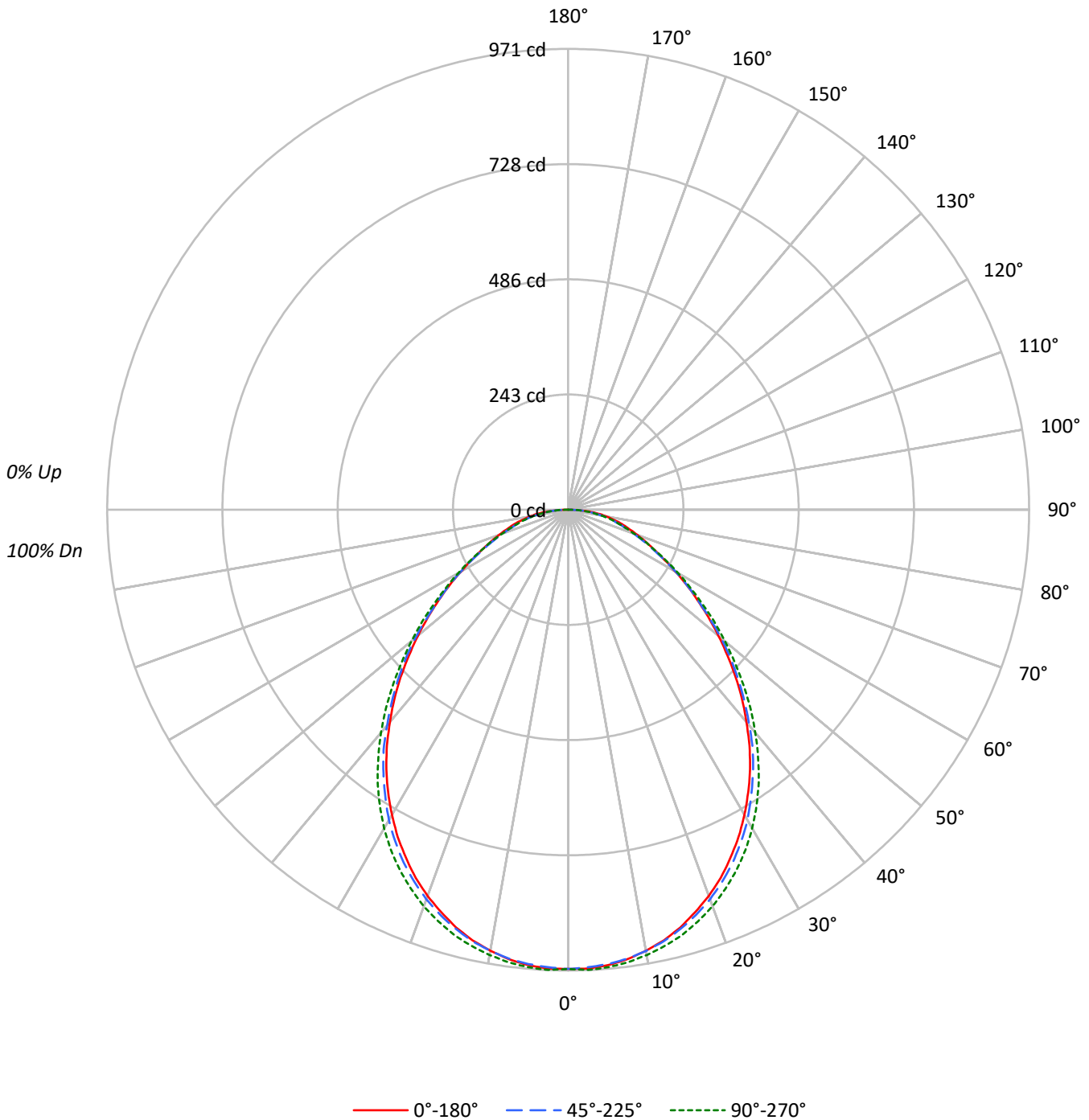
Input Watts (W): 16.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2604	2604	2604
5°	2603	2596	2614
10°	2578	2579	2603
15°	2539	2547	2584
20°	2479	2501	2547
25°	2402	2436	2489
30°	2307	2347	2409
35°	2194	2229	2298
40°	2051	2086	2154
45°	1899	1929	1985
50°	1730	1758	1803
55°	1562	1567	1612
60°	1401	1406	1440
65°	1277	1251	1280
70°	1215	1146	1167
75°	1223	1106	1111
80°	1268	1117	1110
85°	1389	1186	1121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	4.1
10°-20°	258.2	11.7
20°-30°	377.9	17.1
30°-40°	424.9	19.3
40°-50°	391.9	17.8
50°-60°	302.0	13.7
60°-70°	199.3	9.0
70°-80°	116.0	5.3
80°-90°	42.3	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°	727.6	33.0
0°-40°	1152.5	52.3
0°-60°	1846.4	83.8
0°-90°	2204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2204.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	968	968	968	968	968	
5°	964	961	961	966	968	91
15°	911	911	914	923	928	256
25°	809	813	820	832	838	372
35°	668	671	679	692	700	416
45°	499	500	507	517	522	384
55°	333	332	334	340	344	299
65°	200	199	196	198	201	201
75°	118	112	106	104	107	124
85°	45	44	38	35	36	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	967.6	967.6	967.6	967.6	967.6
2.5°	967.6	965.5	965.0	968.6	970.6
5°	963.5	961.4	960.9	965.5	967.6
7.5°	955.3	953.8	954.3	959.4	961.9
10°	943.5	943.0	944.0	949.7	952.7
12.5°	929.7	929.2	931.3	937.4	941.5
15°	911.3	911.3	914.4	922.6	927.7
17.5°	889.3	890.9	895.5	903.6	909.3
20°	865.8	867.3	873.5	882.7	889.3
22.5°	839.7	841.8	847.9	859.1	864.8
25°	809.0	813.1	820.3	831.5	838.2
27.5°	777.3	781.9	788.6	802.4	808.5
30°	742.6	745.6	755.3	768.1	775.3
32.5°	705.7	708.8	717.0	732.3	738.5
35°	667.9	671.0	678.6	692.4	699.6
37.5°	627.0	629.5	638.7	649.5	657.1
40°	584.0	587.6	593.7	606.5	613.2
42.5°	542.1	543.6	550.3	563.0	568.2
45°	499.1	499.6	506.8	517.0	521.6
47.5°	454.6	455.7	464.3	470.5	475.1
50°	413.2	413.7	419.9	425.5	430.6
52.5°	371.8	371.8	374.9	381.0	387.6
55°	332.9	332.4	333.9	339.6	343.7
57.5°	296.1	295.6	297.6	301.2	304.3
60°	260.3	259.3	261.3	263.4	267.5
62.5°	228.6	229.6	227.1	230.1	233.2
65°	200.5	199.4	196.4	197.9	201.0
67.5°	176.4	174.9	169.8	170.8	174.4
70°	154.4	151.4	145.7	145.7	148.3
72.5°	134.5	131.4	124.3	124.8	125.8
75°	117.6	112.5	106.4	104.3	106.9
77.5°	99.2	95.1	89.5	88.0	89.0
80°	81.8	78.8	72.1	70.1	71.6
82.5°	64.9	62.4	54.7	53.2	53.7
85°	45.0	44.5	38.4	35.3	36.3
87.5°	24.0	24.5	19.9	17.9	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)