

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: P291968

Luminaire Tested: **22GR-LD5-20-F125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291968
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-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: 2112.0 lumens
Efficiency: N/A
Efficacy: 134.4 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

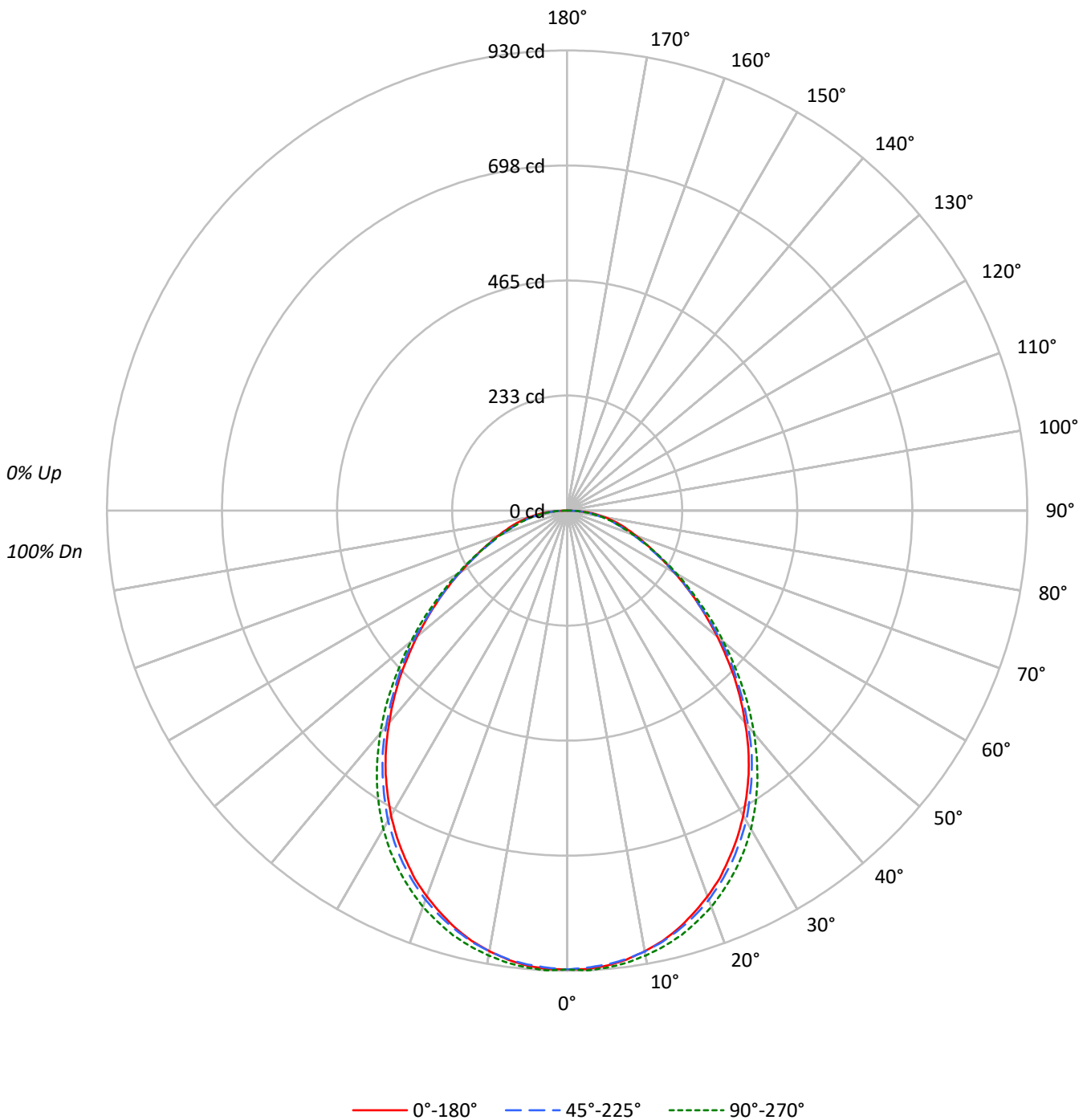
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2495	2495	2495
5°	2494	2487	2505
10°	2470	2472	2495
15°	2433	2441	2477
20°	2376	2397	2440
25°	2302	2334	2385
30°	2211	2249	2308
35°	2102	2136	2202
40°	1966	1998	2064
45°	1820	1848	1902
50°	1658	1684	1727
55°	1497	1501	1545
60°	1342	1348	1379
65°	1223	1198	1226
70°	1164	1099	1118
75°	1172	1059	1065
80°	1215	1071	1063
85°	1331	1136	1074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	4.1
10°-20°	247.4	11.7
20°-30°	362.2	17.1
30°-40°	407.2	19.3
40°-50°	375.5	17.8
50°-60°	289.4	13.7
60°-70°	191.0	9.0
70°-80°	111.2	5.3
80°-90°	40.5	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°	697.2	33.0
0°-40°	1104.4	52.3
0°-60°	1769.4	83.8
0°-90°	2112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2112.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	923	921	921	925	927	88
15°	873	873	876	884	889	246
25°	775	779	786	797	803	357
35°	640	643	650	664	670	399
45°	478	479	486	495	500	368
55°	319	318	320	325	329	286
65°	192	191	188	190	193	193
75°	113	108	102	100	102	119
85°	43	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°	927.2	927.2	927.2	927.2	927.2
2.5°	927.2	925.2	924.7	928.2	930.1
5°	923.3	921.3	920.8	925.2	927.2
7.5°	915.4	913.9	914.4	919.3	921.8
10°	904.1	903.7	904.6	910.0	913.0
12.5°	890.9	890.4	892.4	898.3	902.2
15°	873.3	873.3	876.2	884.1	889.0
17.5°	852.2	853.7	858.1	865.9	871.3
20°	829.7	831.1	837.0	845.8	852.2
22.5°	804.7	806.6	812.5	823.3	828.7
25°	775.3	779.2	786.0	796.8	803.2
27.5°	744.9	749.3	755.7	768.9	774.8
30°	711.6	714.5	723.8	736.1	742.9
32.5°	676.3	679.2	687.1	701.8	707.6
35°	640.0	642.9	650.3	663.5	670.4
37.5°	600.8	603.3	612.1	622.4	629.7
40°	559.6	563.1	568.9	581.2	587.6
42.5°	519.5	520.9	527.3	539.5	544.4
45°	478.3	478.8	485.6	495.4	499.9
47.5°	435.7	436.6	445.0	450.8	455.3
50°	396.0	396.5	402.3	407.7	412.6
52.5°	356.3	356.3	359.2	365.1	371.5
55°	319.0	318.5	320.0	325.4	329.3
57.5°	283.7	283.2	285.2	288.6	291.6
60°	249.4	248.5	250.4	252.4	256.3
62.5°	219.1	220.0	217.6	220.5	223.5
65°	192.1	191.1	188.2	189.6	192.6
67.5°	169.1	167.6	162.7	163.7	167.1
70°	148.0	145.1	139.7	139.7	142.1
72.5°	128.9	125.9	119.1	119.6	120.6
75°	112.7	107.8	101.9	100.0	102.4
77.5°	95.1	91.1	85.8	84.3	85.3
80°	78.4	75.5	69.1	67.1	68.6
82.5°	62.2	59.8	52.4	51.0	51.5
85°	43.1	42.6	36.8	33.8	34.8
87.5°	23.0	23.5	19.1	17.2	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)