

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: P292065

Luminaire Tested: **22GR-LD5-20-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292065
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-L92765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1836.0 lumens
Efficiency: N/A
Efficacy: 117.5 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

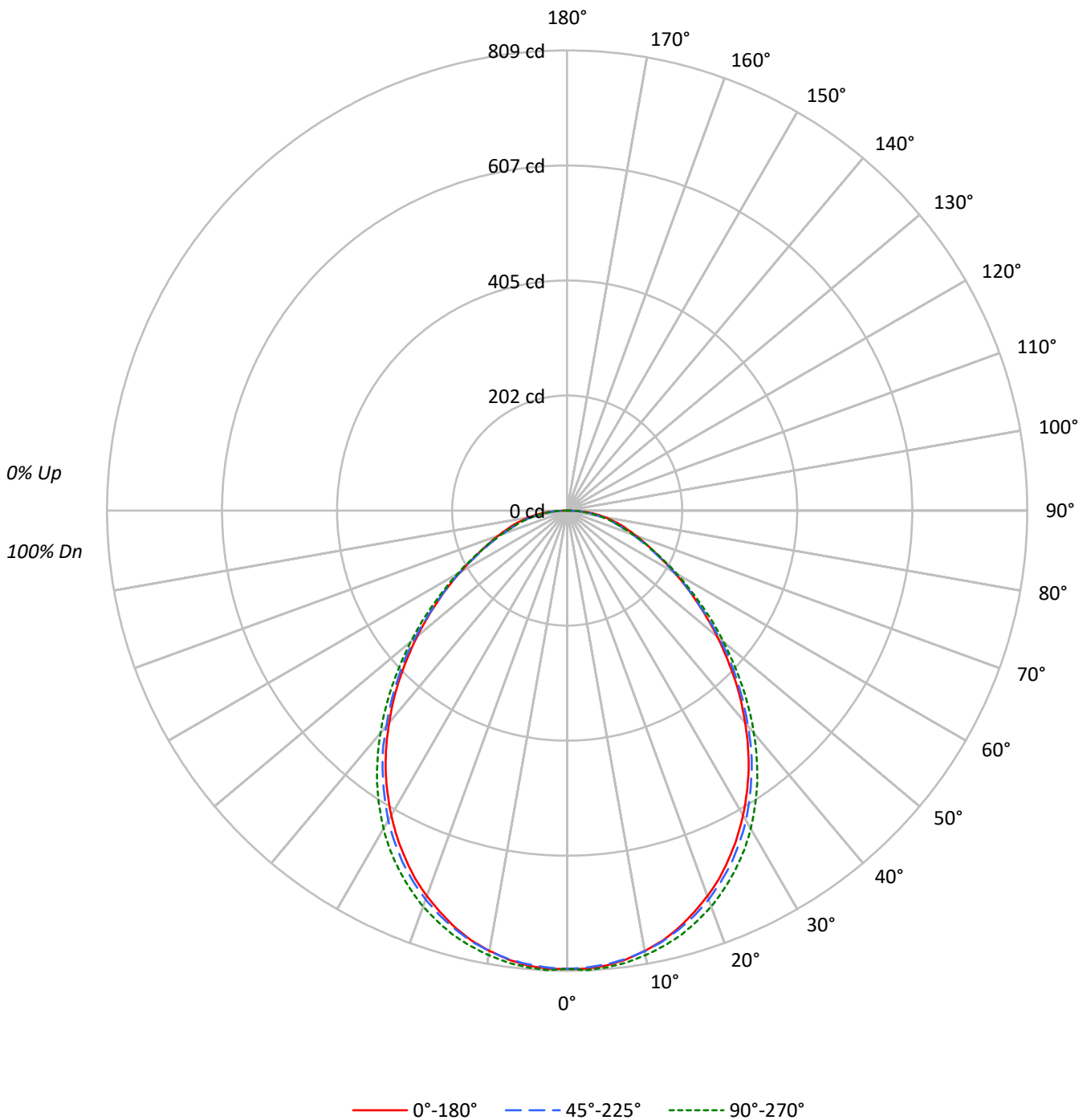
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2169	2169	2169
5°	2168	2162	2177
10°	2148	2149	2169
15°	2115	2122	2153
20°	2065	2084	2121
25°	2001	2029	2073
30°	1922	1955	2007
35°	1828	1857	1915
40°	1709	1737	1794
45°	1582	1607	1654
50°	1441	1464	1502
55°	1301	1305	1343
60°	1167	1172	1199
65°	1063	1042	1066
70°	1013	955	972
75°	1019	921	925
80°	1057	931	924
85°	1158	988	932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	4.1
10°-20°	215.1	11.7
20°-30°	314.8	17.1
30°-40°	354.0	19.3
40°-50°	326.4	17.8
50°-60°	251.6	13.7
60°-70°	166.0	9.0
70°-80°	96.6	5.3
80°-90°	35.2	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°	606.1	33.0
0°-40°	960.1	52.3
0°-60°	1538.1	83.8
0°-90°	1836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1836.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	806	806	806	806	806	
5°	803	801	800	804	806	76
15°	759	759	762	768	773	214
25°	674	677	683	693	698	310
35°	556	559	565	577	583	347
45°	416	416	422	431	434	320
55°	277	277	278	283	286	249
65°	167	166	164	165	167	167
75°	98	94	89	87	89	103
85°	38	37	32	29	30	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	806.0	806.0	806.0	806.0	806.0
2.5°	806.0	804.3	803.9	806.9	808.6
5°	802.6	800.9	800.5	804.3	806.0
7.5°	795.8	794.5	794.9	799.2	801.3
10°	786.0	785.6	786.4	791.1	793.7
12.5°	774.5	774.1	775.8	780.9	784.3
15°	759.2	759.2	761.7	768.5	772.8
17.5°	740.8	742.1	745.9	752.8	757.4
20°	721.2	722.5	727.6	735.3	740.8
22.5°	699.5	701.2	706.3	715.7	720.4
25°	673.9	677.4	683.3	692.7	698.2
27.5°	647.5	651.4	656.9	668.4	673.5
30°	618.6	621.1	629.2	639.9	645.8
32.5°	587.9	590.5	597.3	610.0	615.2
35°	556.4	558.9	565.3	576.8	582.8
37.5°	522.3	524.4	532.1	541.0	547.4
40°	486.5	489.5	494.6	505.2	510.8
42.5°	451.6	452.8	458.4	469.0	473.3
45°	415.8	416.2	422.2	430.7	434.5
47.5°	378.7	379.6	386.8	391.9	395.8
50°	344.2	344.6	349.8	354.4	358.7
52.5°	309.7	309.7	312.3	317.4	322.9
55°	277.3	276.9	278.2	282.9	286.3
57.5°	246.7	246.2	247.9	250.9	253.5
60°	216.8	216.0	217.7	219.4	222.8
62.5°	190.4	191.3	189.1	191.7	194.3
65°	167.0	166.1	163.6	164.9	167.4
67.5°	147.0	145.7	141.4	142.3	145.3
70°	128.7	126.1	121.4	121.4	123.5
72.5°	112.0	109.5	103.5	103.9	104.8
75°	98.0	93.7	88.6	86.9	89.0
77.5°	82.6	79.2	74.6	73.3	74.1
80°	68.2	65.6	60.1	58.4	59.6
82.5°	54.1	52.0	45.6	44.3	44.7
85°	37.5	37.1	32.0	29.4	30.2
87.5°	20.0	20.4	16.6	14.9	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)