

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: P291964

Luminaire Tested: **22GR-LD5-20-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291964
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-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1908.0 lumens
Efficiency: N/A
Efficacy: 123.6 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

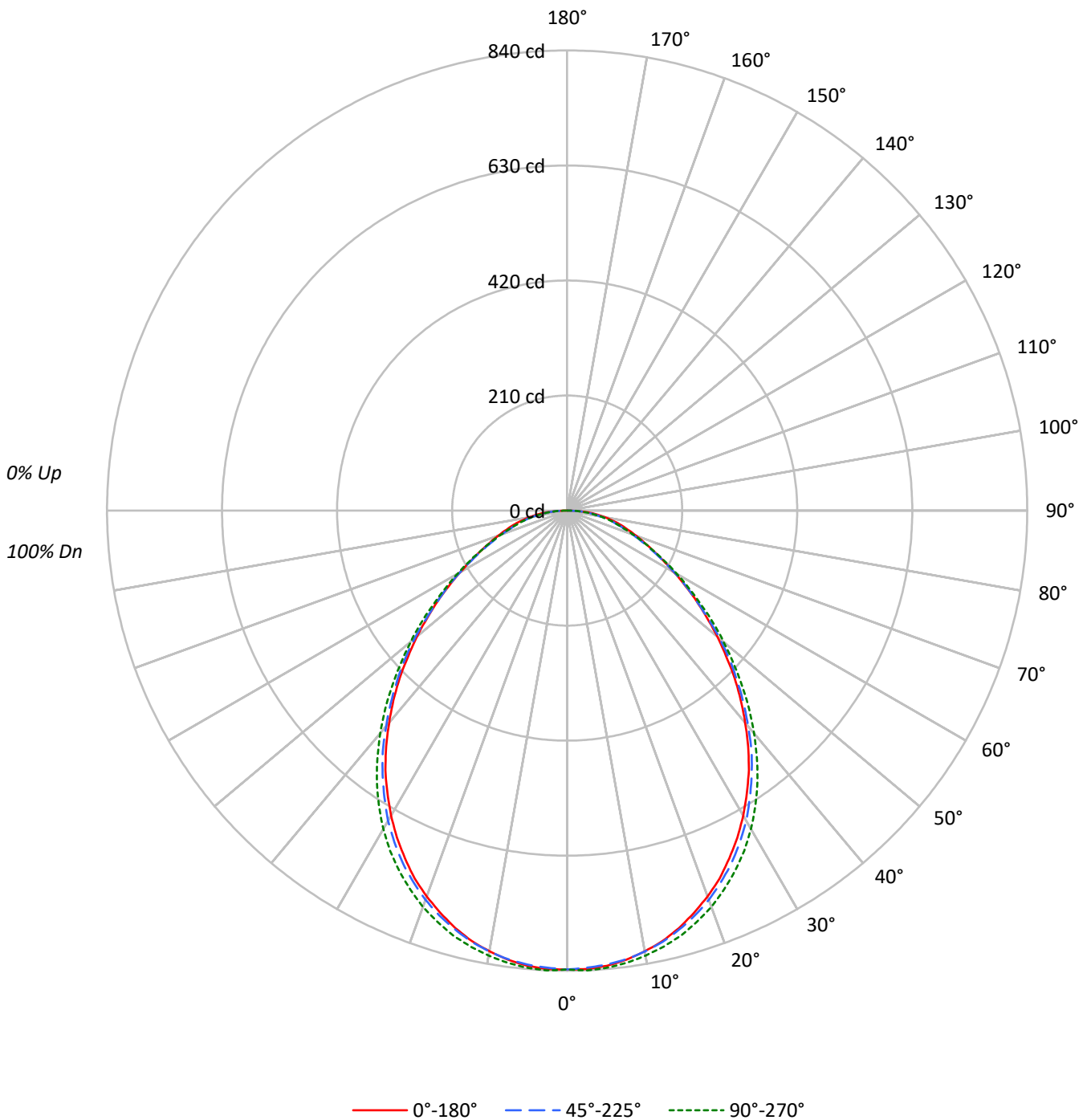
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291964

CATALOG NUMBER: 22GR-LD5-20-F125-UNV-L82765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P291964

CATALOG NUMBER: 22GR-LD5-20-F125-UNV-L82765-W2A1-U-2700K

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°	2254	2254	2254
5°	2253	2247	2263
10°	2232	2233	2254
15°	2198	2205	2237
20°	2146	2166	2205
25°	2080	2108	2154
30°	1997	2032	2086
35°	1899	1930	1989
40°	1776	1806	1865
45°	1644	1670	1719
50°	1497	1522	1561
55°	1352	1356	1396
60°	1213	1217	1246
65°	1105	1082	1108
70°	1052	993	1010
75°	1058	958	962
80°	1097	967	961
85°	1204	1025	969



TEST NUMBER: P291964

CATALOG NUMBER: 22GR-LD5-20-F125-UNV-L82765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	4.1
10°-20°	223.5	11.7
20°-30°	327.2	17.1
30°-40°	367.9	19.3
40°-50°	339.3	17.8
50°-60°	261.5	13.7
60°-70°	172.5	9.0
70°-80°	100.4	5.3
80°-90°	36.6	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°	629.9	33.0
0°-40°	997.7	52.3
0°-60°	1598.5	83.8
0°-90°	1908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	838	838	838	838	838	
5°	834	832	832	836	838	79
15°	789	789	792	799	803	222
25°	700	704	710	720	726	322
35°	578	581	588	599	606	360
45°	432	432	439	448	452	333
55°	288	288	289	294	298	259
65°	174	173	170	171	174	174
75°	102	97	92	90	92	107
85°	39	38	33	30	31	41
90°	0	0	0	0	0	



TEST NUMBER: P291964

CATALOG NUMBER: 22GR-LD5-20-F125-UNV-L82765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	837.6	837.6	837.6	837.6	837.6
2.5°	837.6	835.8	835.4	838.5	840.3
5°	834.1	832.3	831.9	835.8	837.6
7.5°	827.0	825.7	826.1	830.5	832.8
10°	816.8	816.4	817.3	822.1	824.8
12.5°	804.9	804.4	806.2	811.5	815.0
15°	788.9	788.9	791.6	798.7	803.1
17.5°	769.9	771.2	775.2	782.3	787.2
20°	749.5	750.8	756.2	764.1	769.9
22.5°	726.9	728.7	734.0	743.8	748.6
25°	700.4	703.9	710.1	719.9	725.6
27.5°	672.9	676.9	682.7	694.6	699.9
30°	642.8	645.5	653.9	665.0	671.2
32.5°	610.9	613.6	620.7	634.0	639.3
35°	578.2	580.8	587.5	599.4	605.6
37.5°	542.8	545.0	553.0	562.3	568.9
40°	505.6	508.7	514.0	525.1	530.8
42.5°	469.3	470.6	476.4	487.4	491.9
45°	432.1	432.5	438.7	447.6	451.6
47.5°	393.6	394.5	402.0	407.3	411.3
50°	357.7	358.2	363.5	368.3	372.8
52.5°	321.9	321.9	324.5	329.8	335.6
55°	288.2	287.8	289.1	294.0	297.5
57.5°	256.3	255.9	257.7	260.8	263.4
60°	225.3	224.5	226.2	228.0	231.5
62.5°	197.9	198.8	196.6	199.2	201.9
65°	173.5	172.7	170.0	171.3	174.0
67.5°	152.7	151.4	147.0	147.9	151.0
70°	133.7	131.0	126.2	126.2	128.4
72.5°	116.4	113.8	107.6	108.0	108.9
75°	101.8	97.4	92.1	90.3	92.5
77.5°	85.9	82.3	77.5	76.1	77.0
80°	70.8	68.2	62.4	60.7	62.0
82.5°	56.2	54.0	47.4	46.0	46.5
85°	39.0	38.5	33.2	30.5	31.4
87.5°	20.8	21.3	17.3	15.5	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)