

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: P291874

Luminaire Tested: **22GR-LD5-20-F1-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-F1-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1973.0 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

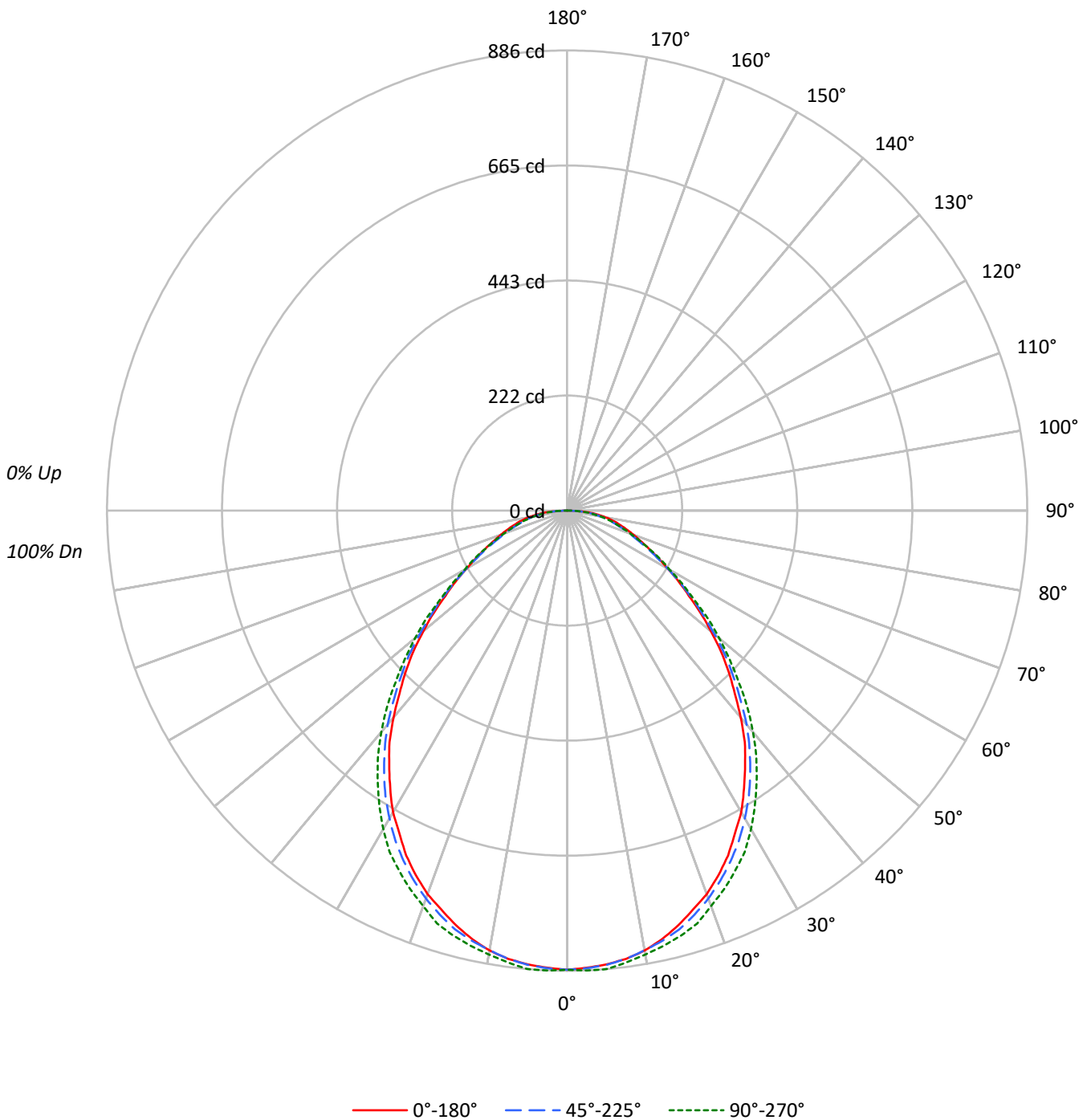
Input Watts (W): 16.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291874

CATALOG NUMBER: 22GR-LD5-20-F1-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P291874

CATALOG NUMBER: 22GR-LD5-20-F1-UNV-L92765-W2A1-U-6500K

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	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38					38			
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34					34			
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2379	2379	2379
5°	2369	2371	2393
10°	2350	2349	2371
15°	2303	2325	2360
20°	2250	2276	2320
25°	2176	2211	2273
30°	2084	2126	2201
35°	1962	2019	2090
40°	1826	1888	1957
45°	1676	1725	1778
50°	1512	1550	1599
55°	1342	1374	1397
60°	1202	1205	1229
65°	1108	1070	1108
70°	1070	991	1020
75°	1089	971	990
80°	1173	1018	1018
85°	1300	1078	1062



TEST NUMBER: P291874

CATALOG NUMBER: 22GR-LD5-20-F1-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	4.2
10°-20°	235.2	11.9
20°-30°	343.3	17.4
30°-40°	384.4	19.5
40°-50°	349.8	17.7
50°-60°	263.3	13.3
60°-70°	171.8	8.7
70°-80°	103.1	5.2
80°-90°	38.6	2.0
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°	662.0	33.6
0°-40°	1046.3	53.0
0°-60°	1659.5	84.1
0°-90°	1973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1973.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	877	876	878	881	886	83
15°	827	828	835	842	847	233
25°	733	735	745	758	765	336
35°	597	603	614	629	636	373
45°	440	445	453	463	467	339
55°	286	290	293	297	298	258
65°	174	172	168	171	174	174
75°	105	101	93	94	95	111
85°	42	41	35	33	34	43
90°	0	0	0	0	0	



TEST NUMBER: P291874

CATALOG NUMBER: 22GR-LD5-20-F1-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	884.1	884.1	884.1	884.1	884.1
2.5°	881.0	880.5	881.9	884.1	886.4
5°	876.9	875.5	877.8	881.0	886.0
7.5°	870.5	870.5	870.5	876.4	877.3
10°	860.1	861.0	859.7	865.6	867.8
12.5°	845.2	845.6	848.3	854.2	858.3
15°	826.6	827.5	834.7	841.5	847.0
17.5°	805.7	808.9	815.7	826.6	833.4
20°	785.8	789.4	794.9	806.7	810.3
22.5°	760.4	764.5	771.3	781.7	789.4
25°	732.8	735.0	744.6	758.2	765.4
27.5°	699.7	704.7	716.5	730.5	740.5
30°	670.7	673.4	684.3	700.6	708.3
32.5°	634.0	642.1	651.2	665.7	673.0
35°	597.3	602.7	614.5	629.0	636.3
37.5°	561.9	565.1	576.9	589.1	598.2
40°	519.8	525.7	537.5	550.6	557.0
42.5°	477.6	486.3	494.0	507.1	513.9
45°	440.5	445.0	453.2	462.7	467.2
47.5°	401.5	403.8	413.3	419.2	424.2
50°	361.2	363.9	370.2	376.1	382.0
52.5°	324.0	326.3	330.4	335.8	341.7
55°	286.0	290.0	292.8	296.8	297.7
57.5°	255.1	254.7	256.5	259.7	262.8
60°	223.4	224.3	223.9	227.0	228.4
62.5°	197.1	196.7	194.0	198.5	202.1
65°	174.0	172.2	168.1	170.8	174.0
67.5°	152.7	151.8	145.0	147.3	150.0
70°	136.0	132.8	126.0	127.3	129.6
72.5°	119.6	116.0	109.2	109.7	111.0
75°	104.7	101.1	93.4	93.8	95.2
77.5°	90.6	86.1	79.3	78.4	79.3
80°	75.7	71.6	65.7	63.0	65.7
82.5°	60.3	58.0	51.2	48.5	49.4
85°	42.1	40.8	34.9	33.1	34.4
87.5°	19.5	20.8	17.7	16.3	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)