

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: P291871

Luminaire Tested: **22GR-LD5-20-F1-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291871
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-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1922.0 lumens
Efficiency: N/A
Efficacy: 121.6 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

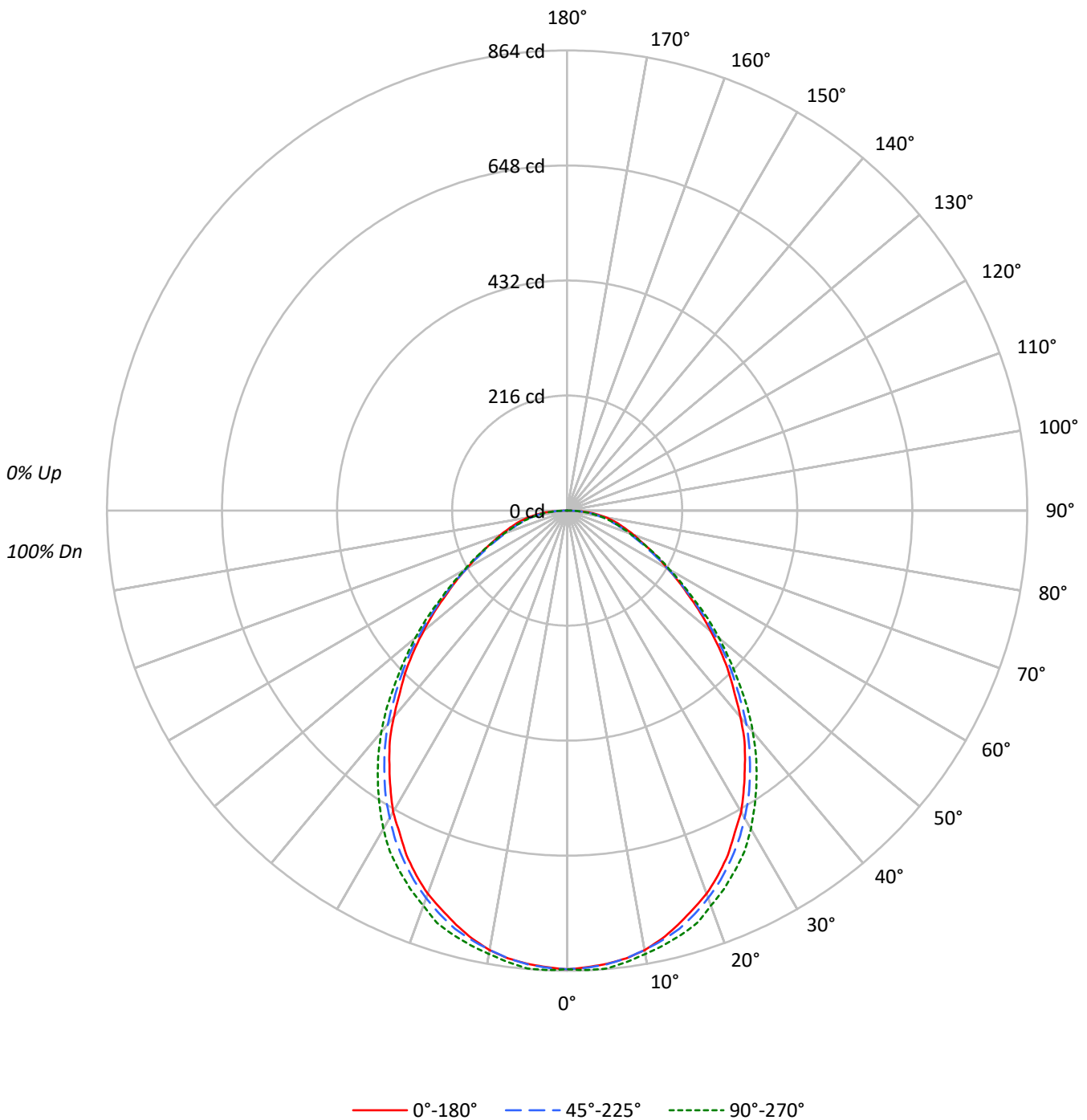
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2318	2318	2318
5°	2307	2310	2331
10°	2290	2288	2310
15°	2243	2265	2299
20°	2192	2217	2260
25°	2119	2154	2214
30°	2030	2071	2144
35°	1911	1966	2036
40°	1779	1839	1906
45°	1633	1680	1732
50°	1473	1510	1558
55°	1307	1338	1361
60°	1171	1174	1197
65°	1079	1043	1079
70°	1042	965	994
75°	1061	945	964
80°	1142	992	992
85°	1269	1050	1037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	4.2
10°-20°	229.2	11.9
20°-30°	334.4	17.4
30°-40°	374.4	19.5
40°-50°	340.8	17.7
50°-60°	256.5	13.3
60°-70°	167.4	8.7
70°-80°	100.4	5.2
80°-90°	37.6	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°	644.9	33.6
0°-40°	1019.3	53.0
0°-60°	1616.6	84.1
0°-90°	1922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	854	853	855	858	863	81
15°	805	806	813	820	825	227
25°	714	716	725	739	746	328
35°	582	587	599	613	620	364
45°	429	434	442	451	455	330
55°	279	282	285	289	290	252
65°	170	168	164	166	170	170
75°	102	98	91	91	93	108
85°	41	40	34	32	34	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	861.3	861.3	861.3	861.3	861.3
2.5°	858.2	857.8	859.1	861.3	863.5
5°	854.2	852.9	855.1	858.2	863.1
7.5°	848.0	848.0	848.0	853.8	854.7
10°	837.9	838.8	837.5	843.2	845.4
12.5°	823.3	823.8	826.4	832.2	836.1
15°	805.2	806.1	813.2	819.8	825.1
17.5°	784.9	788.0	794.6	805.2	811.8
20°	765.5	769.0	774.3	785.8	789.3
22.5°	740.8	744.7	751.4	761.5	769.0
25°	713.8	716.0	725.3	738.6	745.6
27.5°	681.6	686.5	697.9	711.6	721.3
30°	653.4	656.0	666.6	682.5	690.0
32.5°	617.6	625.5	634.4	648.5	655.6
35°	581.8	587.1	598.6	612.7	619.8
37.5°	547.4	550.5	562.0	573.9	582.7
40°	506.4	512.1	523.6	536.4	542.6
42.5°	465.3	473.7	481.2	494.0	500.6
45°	429.1	433.5	441.5	450.7	455.1
47.5°	391.1	393.3	402.6	408.4	413.2
50°	351.8	354.5	360.7	366.4	372.2
52.5°	315.6	317.9	321.8	327.1	332.9
55°	278.6	282.5	285.2	289.2	290.0
57.5°	248.5	248.1	249.9	253.0	256.0
60°	217.6	218.5	218.1	221.2	222.5
62.5°	192.0	191.6	188.9	193.4	196.9
65°	169.5	167.8	163.8	166.4	169.5
67.5°	148.8	147.9	141.3	143.5	146.1
70°	132.4	129.3	122.7	124.1	126.3
72.5°	116.5	113.0	106.4	106.8	108.2
75°	102.0	98.4	90.9	91.4	92.7
77.5°	88.3	83.9	77.3	76.4	77.3
80°	73.7	69.8	64.0	61.4	64.0
82.5°	58.7	56.5	49.9	47.2	48.1
85°	41.1	39.7	34.0	32.2	33.6
87.5°	19.0	20.3	17.2	15.9	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)