

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: P292265

Luminaire Tested: **22GR-LD5-20-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-A-UNV-L92765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1954.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

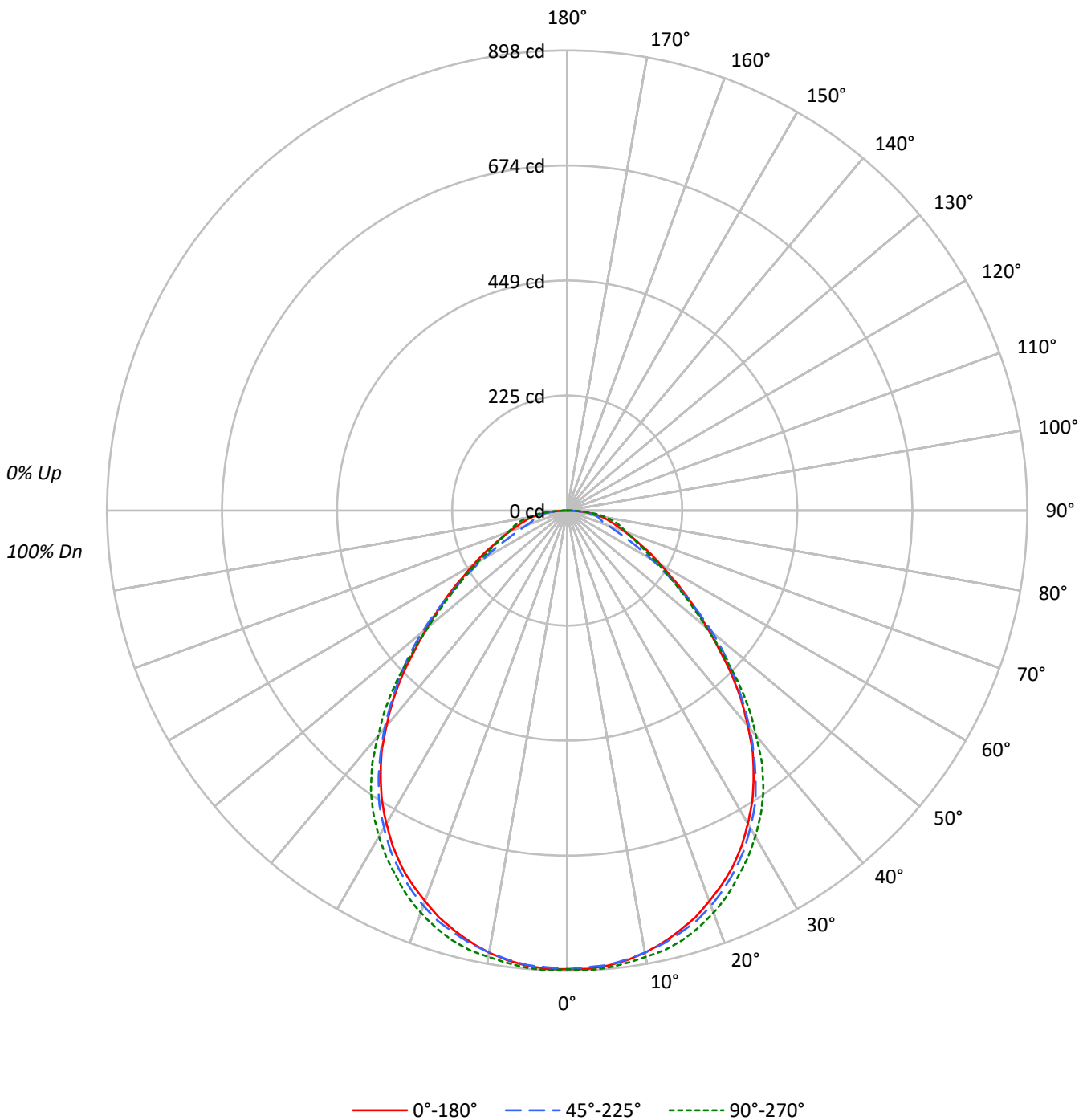
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2408	2408	2408
5°	2409	2405	2420
10°	2394	2393	2417
15°	2364	2376	2418
20°	2323	2350	2392
25°	2273	2299	2341
30°	2191	2221	2282
35°	2084	2108	2193
40°	1926	1947	2016
45°	1730	1762	1789
50°	1496	1549	1481
55°	1306	1271	1255
60°	1131	1018	1087
65°	1011	799	975
70°	937	662	962
75°	936	700	1069
80°	1035	880	1206
85°	1081	954	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	4.3
10°-20°	241.2	12.3
20°-30°	356.7	18.3
30°-40°	402.5	20.6
40°-50°	354.8	18.2
50°-60°	243.4	12.5
60°-70°	143.6	7.4
70°-80°	89.6	4.6
80°-90°	37.4	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°	682.6	34.9
0°-40°	1085.1	55.5
0°-60°	1683.4	86.1
0°-90°	1954.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1954.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	895	895	895	895	895	
5°	892	890	890	894	896	85
15°	848	849	853	864	868	239
25°	766	768	774	784	788	352
35°	634	640	642	657	668	395
45°	455	457	463	466	470	349
55°	278	272	271	262	267	250
65°	159	140	126	145	153	160
75°	90	81	67	94	103	97
85°	35	33	31	40	44	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	894.9	894.9	894.9	894.9	894.9
2.5°	895.3	893.0	892.1	895.8	898.0
5°	891.7	889.9	890.3	893.5	895.8
7.5°	885.3	883.9	883.9	888.5	890.8
10°	876.2	875.8	875.8	881.2	884.4
12.5°	863.5	863.9	865.8	873.0	878.5
15°	848.5	849.4	853.0	863.5	868.0
17.5°	832.1	832.1	839.4	847.6	853.0
20°	811.2	812.6	820.7	829.8	835.3
22.5°	789.8	792.1	798.9	809.4	814.4
25°	765.7	768.5	774.4	784.4	788.5
27.5°	737.5	741.2	747.5	754.8	763.5
30°	705.2	710.7	714.8	724.8	734.4
32.5°	672.5	677.5	682.1	692.5	703.4
35°	634.3	639.8	641.6	657.1	667.5
37.5°	595.2	597.5	598.4	613.9	625.2
40°	548.4	552.9	554.3	566.6	573.8
42.5°	503.4	505.2	507.9	517.0	525.6
45°	454.7	457.0	462.9	465.6	470.2
47.5°	403.8	410.6	417.4	408.8	409.2
50°	357.4	362.9	370.1	353.8	353.8
52.5°	316.0	318.7	319.2	305.6	308.3
55°	278.3	271.5	271.0	261.9	267.4
57.5°	240.5	231.4	228.3	225.5	231.9
60°	210.1	193.7	189.2	193.3	201.9
62.5°	185.1	164.1	155.5	166.0	173.7
65°	158.7	139.6	125.5	145.1	153.2
67.5°	138.2	120.0	101.9	129.6	135.5
70°	119.1	105.0	84.1	117.8	122.3
72.5°	103.7	92.8	72.8	106.4	111.9
75°	90.0	80.9	67.3	94.1	102.8
77.5°	79.1	69.1	62.7	81.4	91.9
80°	66.8	56.8	56.8	68.2	77.8
82.5°	52.7	44.6	45.9	55.5	62.3
85°	35.0	32.7	30.9	40.5	44.1
87.5°	17.7	18.2	16.4	20.9	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)