

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: P292160

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292160
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-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1902.0 lumens
Efficiency: N/A
Efficacy: 123.2 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

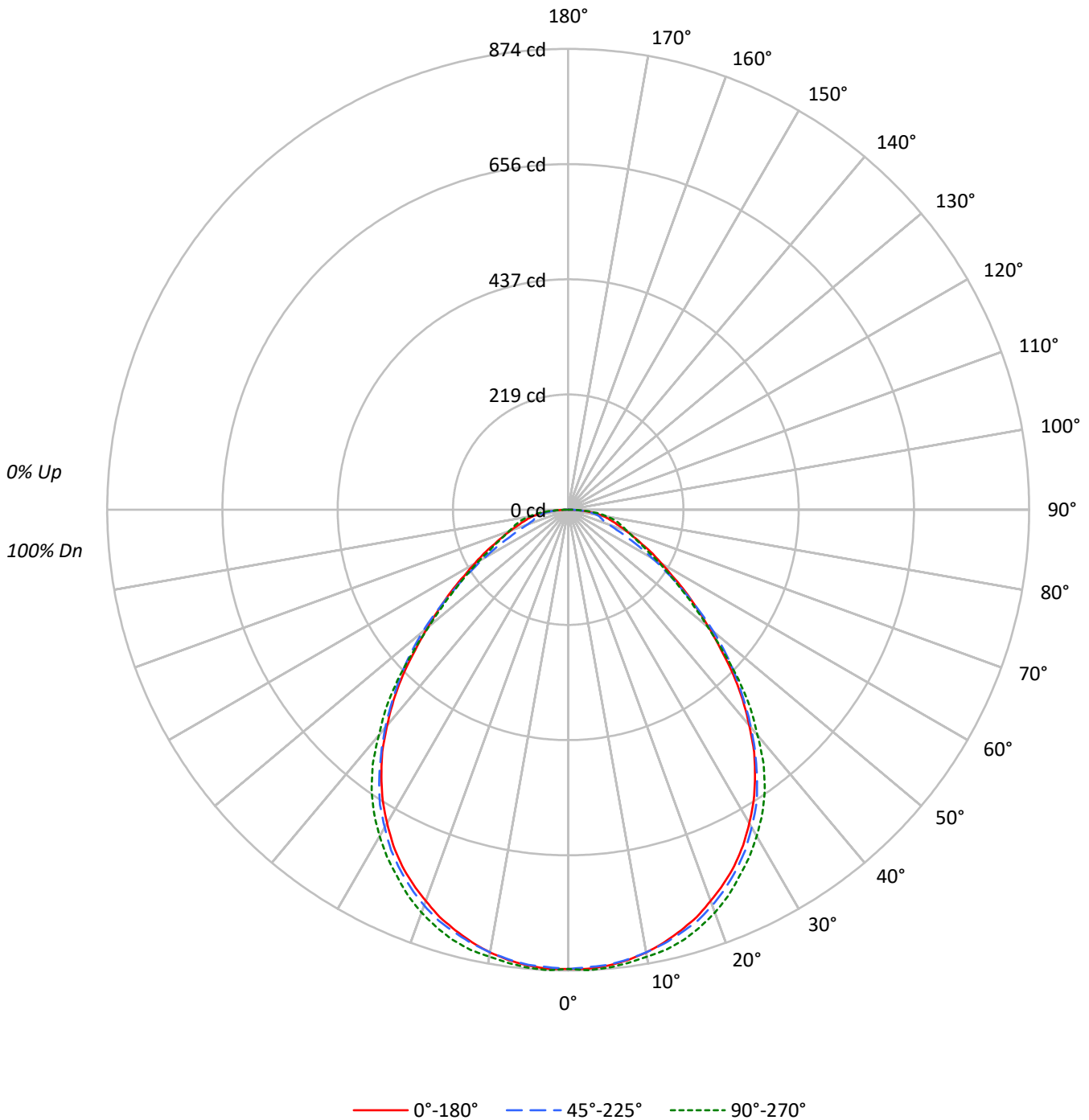
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2344	2344	2344
5°	2344	2341	2355
10°	2331	2329	2352
15°	2301	2313	2354
20°	2261	2288	2328
25°	2213	2238	2279
30°	2133	2162	2221
35°	2028	2052	2134
40°	1875	1895	1962
45°	1684	1715	1742
50°	1456	1508	1441
55°	1271	1238	1221
60°	1101	991	1058
65°	984	778	950
70°	913	644	937
75°	911	681	1040
80°	1009	857	1173
85°	1053	929	1325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	4.3
10°-20°	234.8	12.3
20°-30°	347.2	18.3
30°-40°	391.8	20.6
40°-50°	345.4	18.2
50°-60°	236.9	12.5
60°-70°	139.8	7.4
70°-80°	87.2	4.6
80°-90°	36.4	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°	664.4	34.9
0°-40°	1056.2	55.5
0°-60°	1638.5	86.1
0°-90°	1902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	871	871	871	871	871	
5°	868	866	867	870	872	82
15°	826	827	830	840	845	233
25°	745	748	754	764	768	342
35°	617	623	624	640	650	385
45°	443	445	451	453	458	340
55°	271	264	264	255	260	243
65°	154	136	122	141	149	156
75°	88	79	66	92	100	94
85°	34	32	30	39	43	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	871.0	871.0	871.0	871.0	871.0
2.5°	871.5	869.3	868.4	871.9	874.1
5°	867.9	866.2	866.6	869.7	871.9
7.5°	861.8	860.4	860.4	864.9	867.1
10°	852.9	852.5	852.5	857.8	860.9
12.5°	840.5	841.0	842.7	849.8	855.1
15°	825.9	826.8	830.3	840.5	844.9
17.5°	810.0	810.0	817.0	825.0	830.3
20°	789.6	790.9	798.9	807.8	813.1
22.5°	768.8	771.0	777.7	787.8	792.7
25°	745.3	748.0	753.8	763.5	767.5
27.5°	717.9	721.4	727.6	734.7	743.1
30°	686.5	691.8	695.8	705.5	714.8
32.5°	654.6	659.5	663.9	674.1	684.7
35°	617.4	622.7	624.5	639.6	649.7
37.5°	579.4	581.6	582.5	597.5	608.6
40°	533.8	538.2	539.5	551.5	558.6
42.5°	490.0	491.7	494.4	503.2	511.7
45°	442.6	444.8	450.6	453.2	457.7
47.5°	393.0	399.7	406.3	397.9	398.3
50°	347.9	353.2	360.3	344.3	344.3
52.5°	307.6	310.3	310.7	297.4	300.1
55°	270.9	264.2	263.8	254.9	260.3
57.5°	234.1	225.3	222.2	219.5	225.7
60°	204.5	188.5	184.1	188.1	196.5
62.5°	180.1	159.8	151.4	161.6	169.1
65°	154.5	135.9	122.2	141.2	149.2
67.5°	134.6	116.8	99.1	126.1	131.9
70°	116.0	102.2	81.9	114.6	119.1
72.5°	100.9	90.3	70.8	103.6	108.9
75°	87.6	78.8	65.5	91.6	100.0
77.5°	77.0	67.3	61.1	79.2	89.4
80°	65.1	55.3	55.3	66.4	75.7
82.5°	51.3	43.4	44.7	54.0	60.6
85°	34.1	31.9	30.1	39.4	42.9
87.5°	17.3	17.7	15.9	20.4	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)