

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: P292258

Luminaire Tested: **22GR-LD5-20-A-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292258
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-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1624.0 lumens
Efficiency: N/A
Efficacy: 105.2 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

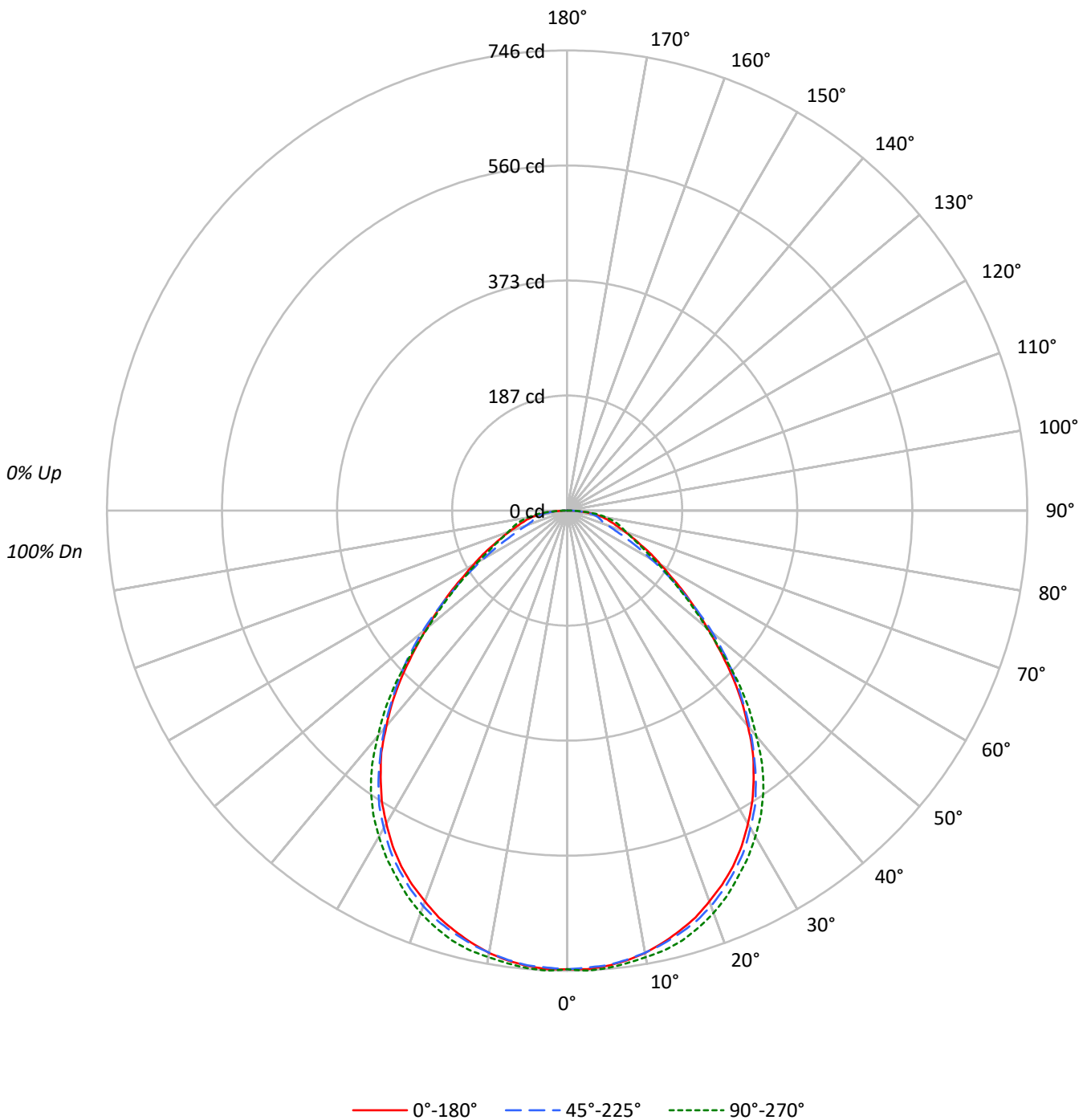
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2001	2001	2001
5°	2002	1999	2011
10°	1990	1989	2008
15°	1965	1975	2010
20°	1931	1953	1988
25°	1890	1911	1946
30°	1821	1846	1896
35°	1732	1752	1823
40°	1601	1618	1675
45°	1438	1464	1487
50°	1243	1288	1231
55°	1085	1057	1042
60°	940	846	903
65°	840	664	811
70°	779	550	800
75°	778	581	888
80°	862	731	1001
85°	898	794	1133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	4.3
10°-20°	200.4	12.3
20°-30°	296.5	18.3
30°-40°	334.5	20.6
40°-50°	294.9	18.2
50°-60°	202.3	12.5
60°-70°	119.4	7.4
70°-80°	74.5	4.6
80°-90°	31.1	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°	567.3	34.9
0°-40°	901.8	55.5
0°-60°	1399.1	86.1
0°-90°	1624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1624.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	741	740	740	743	744	70
15°	705	706	709	718	721	199
25°	636	639	644	652	655	292
35°	527	532	533	546	555	328
45°	378	380	385	387	391	290
55°	231	226	225	218	222	207
65°	132	116	104	121	127	133
75°	75	67	56	78	85	80
85°	29	27	26	34	37	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.7	743.7	743.7	743.7	743.7
2.5°	744.1	742.2	741.5	744.5	746.4
5°	741.1	739.6	740.0	742.6	744.5
7.5°	735.8	734.7	734.7	738.4	740.3
10°	728.2	727.9	727.9	732.4	735.0
12.5°	717.7	718.0	719.5	725.6	730.1
15°	705.2	705.9	709.0	717.7	721.4
17.5°	691.6	691.6	697.6	704.4	709.0
20°	674.2	675.3	682.1	689.7	694.2
22.5°	656.4	658.3	664.0	672.7	676.8
25°	636.4	638.7	643.6	651.9	655.3
27.5°	613.0	616.0	621.3	627.3	634.5
30°	586.1	590.7	594.1	602.4	610.3
32.5°	558.9	563.1	566.9	575.6	584.6
35°	527.2	531.7	533.2	546.1	554.8
37.5°	494.7	496.6	497.3	510.2	519.6
40°	455.8	459.5	460.7	470.9	476.9
42.5°	418.3	419.9	422.1	429.7	436.9
45°	377.9	379.8	384.7	387.0	390.8
47.5°	335.6	341.3	346.9	339.7	340.1
50°	297.0	301.6	307.6	294.0	294.0
52.5°	262.6	264.9	265.3	254.0	256.2
55°	231.3	225.6	225.2	217.7	222.2
57.5°	199.9	192.4	189.7	187.4	192.7
60°	174.6	161.0	157.2	160.6	167.8
62.5°	153.8	136.4	129.2	137.9	144.4
65°	131.9	116.0	104.3	120.6	127.4
67.5°	114.9	99.8	84.7	107.7	112.6
70°	99.0	87.3	69.9	97.9	101.7
72.5°	86.2	77.1	60.5	88.4	93.0
75°	74.8	67.3	55.9	78.2	85.4
77.5°	65.8	57.4	52.2	67.6	76.3
80°	55.6	47.2	47.2	56.7	64.6
82.5°	43.8	37.0	38.2	46.1	51.8
85°	29.1	27.2	25.7	33.6	36.7
87.5°	14.7	15.1	13.6	17.4	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)