

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: P292228

Luminaire Tested: **22GR-LD5-24-A-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292228
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-LD5-24-A-UNV-L93050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1892.0 lumens
Efficiency: N/A
Efficacy: 102.2 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

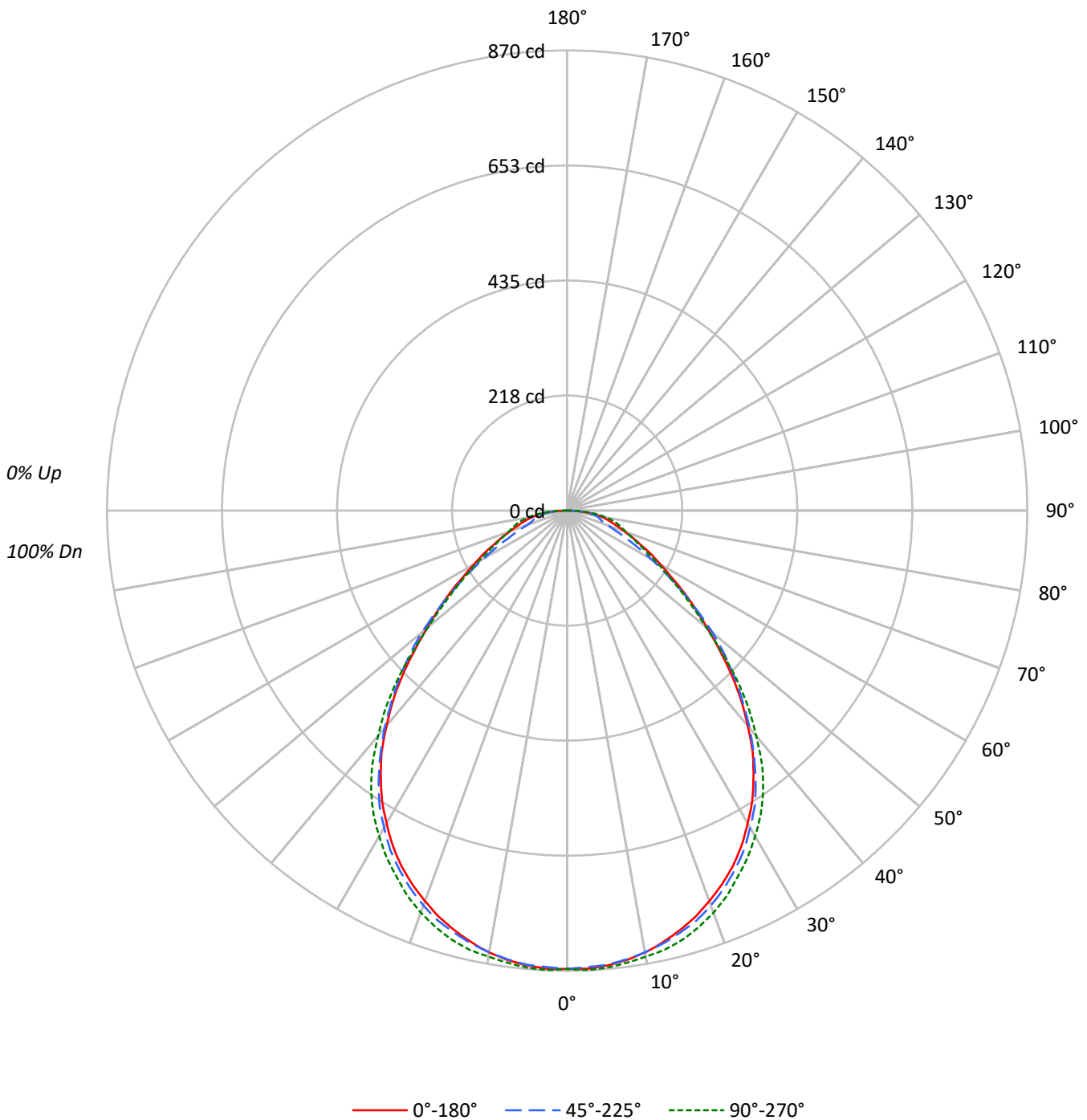
Input Watts (W): 18.507
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2332	2332	2332
5°	2332	2329	2343
10°	2318	2317	2340
15°	2289	2301	2342
20°	2249	2276	2316
25°	2201	2226	2267
30°	2122	2151	2209
35°	2018	2041	2123
40°	1865	1885	1952
45°	1676	1706	1732
50°	1449	1500	1434
55°	1264	1231	1215
60°	1095	986	1052
65°	979	774	945
70°	908	641	932
75°	907	678	1035
80°	1003	852	1167
85°	1047	923	1318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	4.3
10°-20°	233.5	12.3
20°-30°	345.4	18.3
30°-40°	389.8	20.6
40°-50°	343.6	18.2
50°-60°	235.7	12.5
60°-70°	139.1	7.4
70°-80°	86.8	4.6
80°-90°	36.2	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°	660.9	34.9
0°-40°	1050.7	55.5
0°-60°	1629.9	86.1
0°-90°	1892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	866	866	866	866	866	
5°	863	862	862	865	867	82
15°	822	822	826	836	840	232
25°	741	744	750	760	763	341
35°	614	620	621	636	646	383
45°	440	442	448	451	455	338
55°	270	263	262	254	259	242
65°	154	135	122	140	148	155
75°	87	78	65	91	100	93
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°	866.5	866.5	866.5	866.5	866.5
2.5°	866.9	864.7	863.8	867.3	869.5
5°	863.4	861.6	862.1	865.1	867.3
7.5°	857.2	855.9	855.9	860.3	862.5
10°	848.4	848.0	848.0	853.3	856.3
12.5°	836.1	836.5	838.3	845.3	850.6
15°	821.6	822.4	826.0	836.1	840.5
17.5°	805.7	805.7	812.8	820.7	826.0
20°	785.5	786.8	794.7	803.5	808.8
22.5°	764.8	767.0	773.6	783.7	788.5
25°	741.4	744.1	749.8	759.5	763.4
27.5°	714.1	717.7	723.8	730.9	739.2
30°	682.9	688.2	692.1	701.8	711.0
32.5°	651.2	656.0	660.4	670.5	681.1
35°	614.2	619.5	621.2	636.2	646.3
37.5°	576.3	578.5	579.4	594.4	605.4
40°	531.0	535.4	536.7	548.6	555.6
42.5°	487.4	489.1	491.8	500.6	509.0
45°	440.3	442.5	448.2	450.8	455.2
47.5°	391.0	397.6	404.2	395.8	396.3
50°	346.1	351.3	358.4	342.5	342.5
52.5°	306.0	308.6	309.1	295.9	298.5
55°	269.5	262.8	262.4	253.6	258.9
57.5°	232.9	224.1	221.0	218.4	224.5
60°	203.4	187.6	183.2	187.1	195.5
62.5°	179.2	158.9	150.6	160.7	168.2
65°	153.7	135.2	121.5	140.4	148.4
67.5°	133.8	116.2	98.6	125.5	131.2
70°	115.4	101.7	81.5	114.0	118.4
72.5°	100.4	89.8	70.4	103.0	108.3
75°	87.2	78.4	65.2	91.1	99.5
77.5°	76.6	66.9	60.8	78.8	88.9
80°	64.7	55.0	55.0	66.0	75.3
82.5°	51.1	43.1	44.5	53.7	60.3
85°	33.9	31.7	29.9	39.2	42.7
87.5°	17.2	17.6	15.9	20.3	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)