

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: P292358

Luminaire Tested: **22GR-LD5-20-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-A125-UNV-L82765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2021.0 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

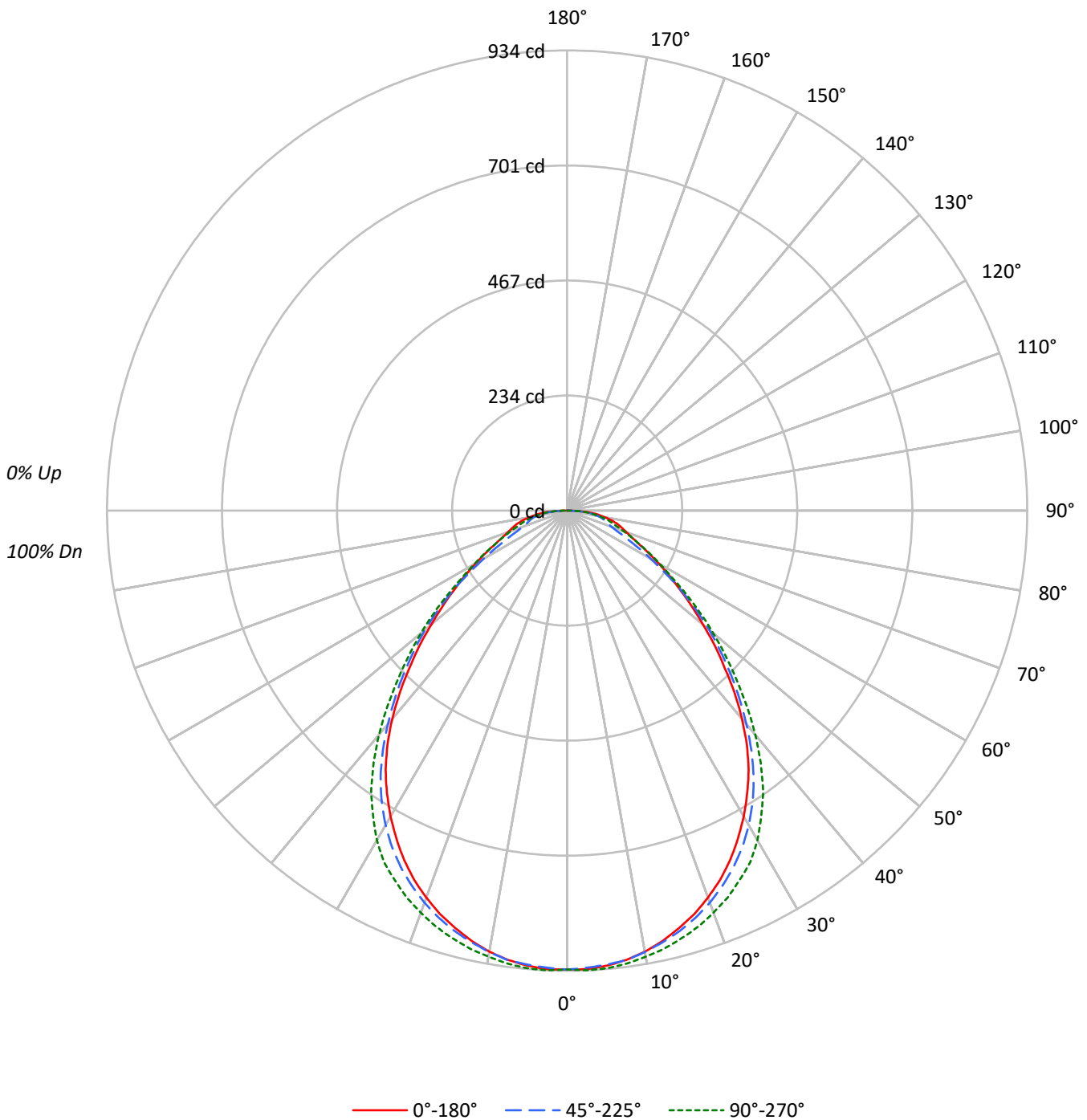
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	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	52	46	41	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	34	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	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2507	2507	2507
5°	2505	2499	2519
10°	2484	2486	2512
15°	2444	2461	2503
20°	2394	2425	2487
25°	2324	2371	2458
30°	2227	2290	2400
35°	2110	2169	2279
40°	1940	1988	2087
45°	1723	1786	1851
50°	1505	1574	1621
55°	1309	1326	1375
60°	1151	1055	1174
65°	1023	843	1029
70°	1005	749	949
75°	1098	823	970
80°	1204	978	1037
85°	1439	1136	1164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	4.4
10°-20°	249.7	12.4
20°-30°	368.6	18.2
30°-40°	412.5	20.4
40°-50°	362.2	17.9
50°-60°	256.3	12.7
60°-70°	149.2	7.4
70°-80°	93.0	4.6
80°-90°	41.6	2.1
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°	706.3	34.9
0°-40°	1118.8	55.4
0°-60°	1737.3	86.0
0°-90°	2021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	927	925	925	930	932	88
15°	877	879	884	893	899	247
25°	783	786	799	818	828	359
35°	642	645	660	680	694	399
45°	453	458	469	481	486	350
55°	279	285	283	288	293	252
65°	161	148	132	144	162	163
75°	106	91	79	81	93	110
85°	47	48	37	36	38	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	931.6	931.6	931.6	931.6	931.6
2.5°	931.6	929.7	928.8	932.1	933.9
5°	927.3	925.0	925.0	929.7	932.5
7.5°	919.8	917.4	920.3	924.5	927.3
10°	909.0	908.0	909.9	915.6	919.3
12.5°	894.8	895.3	897.2	906.1	910.8
15°	877.4	879.3	883.5	892.9	898.6
17.5°	858.5	860.0	866.6	877.4	885.4
20°	835.9	838.8	846.8	860.4	868.4
22.5°	811.0	814.2	824.1	840.6	850.5
25°	782.7	786.0	798.7	817.5	827.9
27.5°	750.6	755.8	770.0	790.7	804.8
30°	716.7	721.0	737.0	760.5	772.3
32.5°	680.4	685.6	700.7	723.3	733.7
35°	642.3	645.1	660.2	680.0	693.6
37.5°	598.9	600.3	614.5	632.8	645.1
40°	552.3	553.2	565.9	583.4	594.2
42.5°	503.7	504.2	517.9	531.1	540.5
45°	452.8	458.0	469.3	480.6	486.3
47.5°	407.1	410.9	421.3	431.2	436.3
50°	359.5	369.0	376.0	381.2	387.3
52.5°	318.5	326.5	328.4	334.6	339.7
55°	279.0	284.6	282.7	287.9	293.1
57.5°	245.5	242.7	236.5	245.5	252.1
60°	213.9	206.4	196.0	208.3	218.2
62.5°	185.7	173.4	160.7	172.9	189.4
65°	160.7	148.0	132.4	144.2	161.6
67.5°	141.8	128.6	110.3	122.0	139.5
70°	127.7	114.0	95.2	105.1	120.6
72.5°	116.4	101.8	85.3	91.9	105.1
75°	105.6	90.9	79.2	81.0	93.3
77.5°	92.8	82.0	72.6	71.6	81.0
80°	77.7	74.5	63.1	61.7	66.9
82.5°	64.1	62.7	51.8	50.4	52.3
85°	46.6	48.5	36.8	35.8	37.7
87.5°	24.5	26.9	19.3	20.3	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)