

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: P292456

Luminaire Tested: **22GR-LD5-20-A125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292456
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-L92765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1770.0 lumens
Efficiency: N/A
Efficacy: 114.7 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

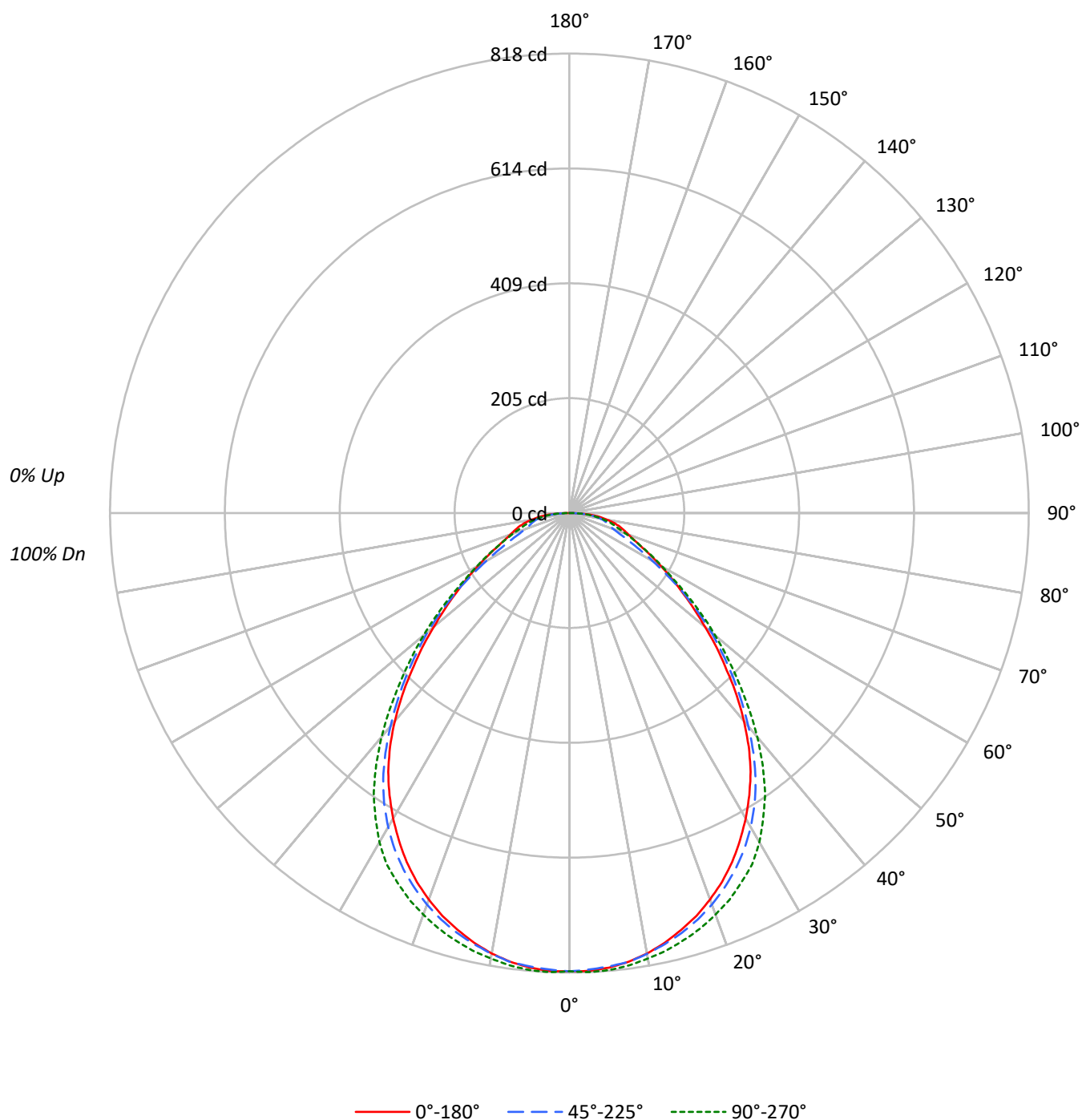
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	102	98	107	103	100	96		99	96	93		95	93	91		92	90	88
2	101	94	87	82	98	92	86	81		88	83	79		85	81	78		82	79	76
3	93	83	76	70	91	82	75	69		79	73	68		76	71	67		74	70	66
4	86	75	67	61	84	74	66	60		71	65	59		69	63	59		67	62	58
5	80	68	59	53	78	67	59	53		65	58	52		63	57	52		61	56	51
6	74	61	53	47	72	61	53	47		59	52	47		57	51	46		56	50	46
7	69	56	48	42	67	55	48	42		54	47	42		52	46	41		51	46	41
8	64	52	44	38	63	51	43	38		50	43	38		48	42	38		47	42	37
9	60	48	40	35	59	47	40	34		46	39	34		45	39	34		44	38	34
10	57	44	37	32	55	44	36	32		43	36	31		42	36	31		41	35	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2196	2196	2196
5°	2194	2188	2206
10°	2175	2178	2200
15°	2141	2156	2193
20°	2096	2124	2178
25°	2035	2077	2153
30°	1950	2005	2102
35°	1848	1899	1996
40°	1699	1741	1828
45°	1509	1564	1621
50°	1318	1379	1420
55°	1146	1162	1204
60°	1009	924	1028
65°	896	739	902
70°	880	656	831
75°	961	721	849
80°	1055	857	908
85°	1263	994	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	4.4
10°-20°	218.7	12.4
20°-30°	322.8	18.2
30°-40°	361.2	20.4
40°-50°	317.2	17.9
50°-60°	224.5	12.7
60°-70°	130.7	7.4
70°-80°	81.4	4.6
80°-90°	36.4	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°	618.6	34.9
0°-40°	979.8	55.4
0°-60°	1521.5	86.0
0°-90°	1770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	812	810	810	814	817	77
15°	768	770	774	782	787	217
25°	686	688	700	716	725	315
35°	562	565	578	596	608	350
45°	397	401	411	421	426	307
55°	244	249	248	252	257	221
65°	141	130	116	126	142	143
75°	92	80	69	71	82	97
85°	41	42	32	31	33	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	815.9	815.9	815.9	815.9	815.9
2.5°	815.9	814.2	813.4	816.3	817.9
5°	812.2	810.1	810.1	814.2	816.7
7.5°	805.6	803.5	806.0	809.7	812.2
10°	796.1	795.2	796.9	801.9	805.2
12.5°	783.7	784.1	785.8	793.6	797.7
15°	768.4	770.1	773.8	782.0	787.0
17.5°	751.9	753.2	758.9	768.4	775.4
20°	732.1	734.6	741.6	753.6	760.6
22.5°	710.2	713.1	721.8	736.2	744.9
25°	685.5	688.4	699.5	716.0	725.1
27.5°	657.4	662.0	674.3	692.5	704.9
30°	627.7	631.4	645.4	666.1	676.4
32.5°	595.9	600.5	613.7	633.5	642.6
35°	562.5	565.0	578.2	595.5	607.5
37.5°	524.5	525.8	538.1	554.2	565.0
40°	483.7	484.5	495.6	510.9	520.4
42.5°	441.2	441.6	453.5	465.1	473.4
45°	396.6	401.1	411.0	420.9	425.9
47.5°	356.6	359.9	368.9	377.6	382.1
50°	314.9	323.1	329.3	333.9	339.2
52.5°	279.0	286.0	287.6	293.0	297.5
55°	244.3	249.3	247.6	252.2	256.7
57.5°	215.0	212.5	207.2	215.0	220.8
60°	187.4	180.8	171.7	182.4	191.1
62.5°	162.6	151.9	140.7	151.5	165.9
65°	140.7	129.6	116.0	126.3	141.6
67.5°	124.2	112.7	96.6	106.9	122.2
70°	111.8	99.9	83.4	92.0	105.6
72.5°	101.9	89.1	74.7	80.5	92.0
75°	92.4	79.6	69.3	71.0	81.7
77.5°	81.3	71.8	63.6	62.7	71.0
80°	68.1	65.2	55.3	54.1	58.6
82.5°	56.1	54.9	45.4	44.2	45.8
85°	40.9	42.5	32.2	31.4	33.0
87.5°	21.5	23.5	16.9	17.7	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)