

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: P292454

Luminaire Tested: **22GR-LD5-20-A125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292454
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-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1621.0 lumens
Efficiency: N/A
Efficacy: 105.0 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

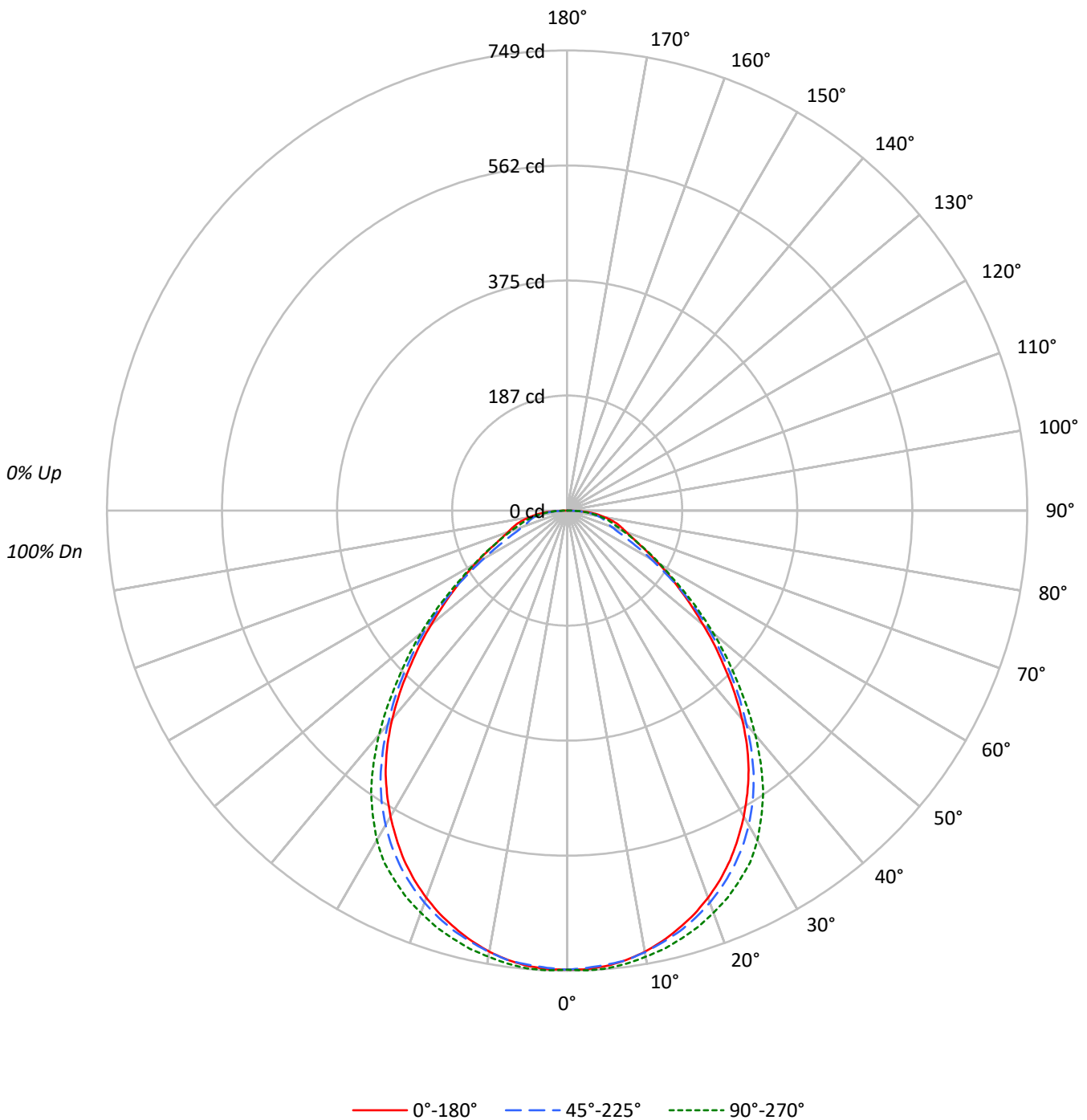
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2011	2011	2011
5°	2009	2004	2021
10°	1992	1994	2015
15°	1960	1974	2008
20°	1920	1945	1995
25°	1864	1902	1972
30°	1786	1837	1925
35°	1692	1739	1827
40°	1556	1594	1674
45°	1382	1432	1484
50°	1207	1263	1301
55°	1050	1064	1103
60°	924	846	942
65°	821	676	825
70°	806	600	762
75°	881	660	778
80°	967	784	832
85°	1155	911	932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	4.4
10°-20°	200.3	12.4
20°-30°	295.6	18.2
30°-40°	330.8	20.4
40°-50°	290.5	17.9
50°-60°	205.6	12.7
60°-70°	119.7	7.4
70°-80°	74.6	4.6
80°-90°	33.4	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°	566.5	34.9
0°-40°	897.3	55.4
0°-60°	1393.4	86.0
0°-90°	1621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	744	742	742	746	748	71
15°	704	705	709	716	721	198
25°	628	630	641	656	664	288
35°	515	517	530	545	556	320
45°	363	367	376	386	390	281
55°	224	228	227	231	235	202
65°	129	119	106	116	130	131
75°	85	73	64	65	75	88
85°	37	39	30	29	30	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	747.2	747.2	747.2	747.2	747.2
2.5°	747.2	745.7	744.9	747.6	749.1
5°	743.8	741.9	741.9	745.7	748.0
7.5°	737.8	735.9	738.1	741.5	743.8
10°	729.1	728.3	729.8	734.4	737.4
12.5°	717.7	718.1	719.6	726.8	730.6
15°	703.7	705.2	708.7	716.2	720.7
17.5°	688.6	689.8	695.0	703.7	710.2
20°	670.5	672.7	679.2	690.1	696.6
22.5°	650.4	653.1	661.0	674.3	682.2
25°	627.8	630.4	640.6	655.7	664.1
27.5°	602.1	606.2	617.6	634.2	645.5
30°	574.9	578.3	591.1	610.0	619.5
32.5°	545.8	549.9	562.0	580.1	588.5
35°	515.1	517.4	529.5	545.4	556.3
37.5°	480.4	481.5	492.8	507.6	517.4
40°	443.0	443.7	453.9	467.9	476.6
42.5°	404.0	404.4	415.4	425.9	433.5
45°	363.2	367.4	376.4	385.5	390.0
47.5°	326.5	329.6	337.9	345.8	350.0
50°	288.4	295.9	301.6	305.8	310.7
52.5°	255.5	261.9	263.4	268.3	272.5
55°	223.7	228.3	226.8	230.9	235.1
57.5°	196.9	194.6	189.7	196.9	202.2
60°	171.6	165.5	157.2	167.1	175.0
62.5°	148.9	139.1	128.9	138.7	151.9
65°	128.9	118.7	106.2	115.7	129.6
67.5°	113.8	103.2	88.4	97.9	111.9
70°	102.4	91.5	76.3	84.3	96.8
72.5°	93.4	81.6	68.4	73.7	84.3
75°	84.7	72.9	63.5	65.0	74.8
77.5°	74.5	65.8	58.2	57.4	65.0
80°	62.4	59.7	50.6	49.5	53.7
82.5°	51.4	50.3	41.6	40.4	42.0
85°	37.4	38.9	29.5	28.7	30.2
87.5°	19.7	21.5	15.5	16.3	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)