

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: P292162

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292162
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-L82765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2024.0 lumens
Efficiency: N/A
Efficacy: 130.3 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

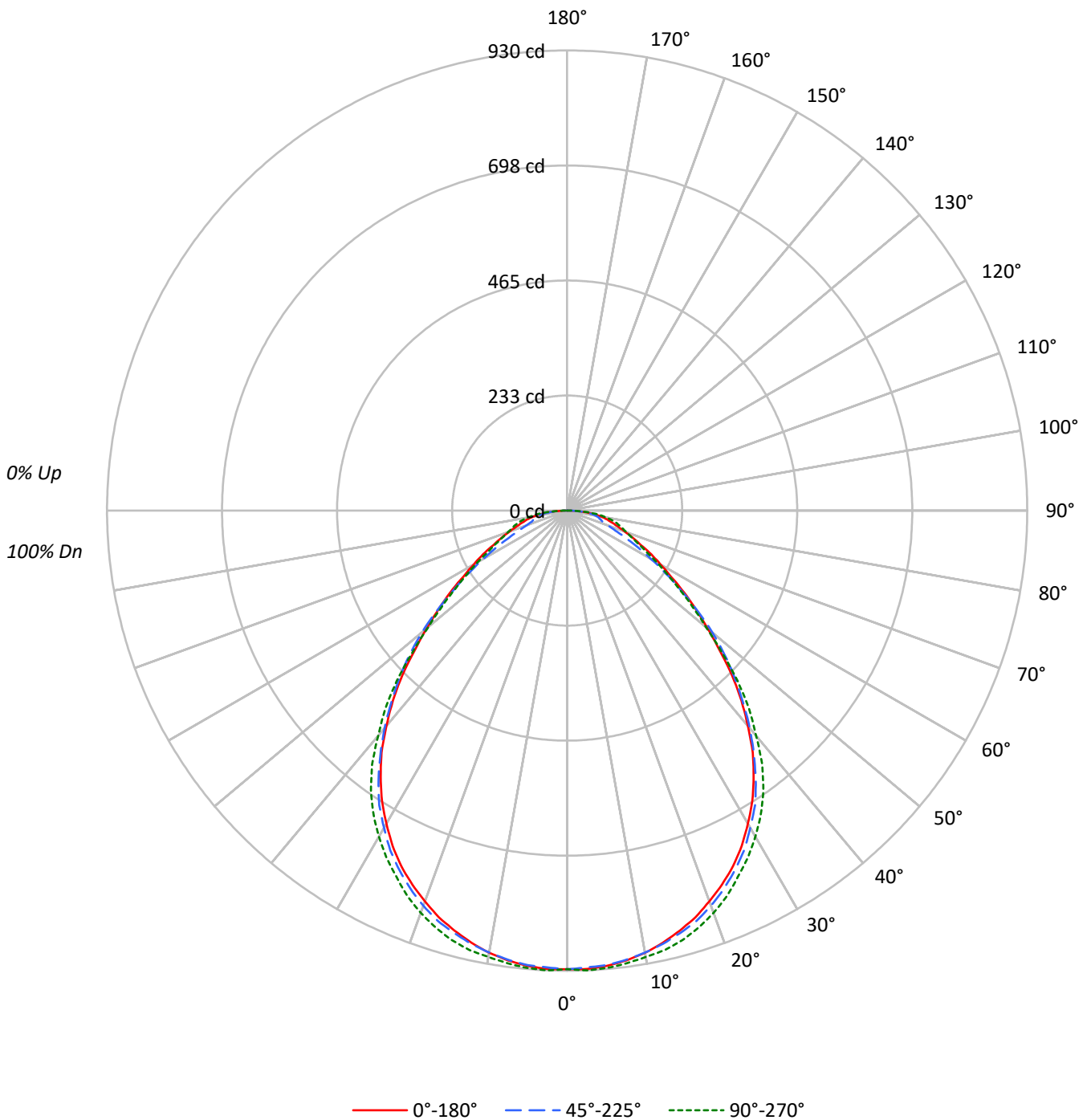
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2494	2494	2494
5°	2495	2491	2506
10°	2480	2479	2503
15°	2449	2462	2505
20°	2406	2434	2478
25°	2355	2382	2425
30°	2270	2301	2364
35°	2158	2183	2271
40°	1995	2017	2088
45°	1792	1825	1853
50°	1550	1605	1534
55°	1352	1317	1299
60°	1171	1054	1125
65°	1047	828	1011
70°	971	685	997
75°	970	725	1106
80°	1072	913	1247
85°	1121	988	1411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	4.3
10°-20°	249.8	12.3
20°-30°	369.5	18.3
30°-40°	416.9	20.6
40°-50°	367.6	18.2
50°-60°	252.1	12.5
60°-70°	148.8	7.4
70°-80°	92.8	4.6
80°-90°	38.7	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°	707.0	34.9
0°-40°	1124.0	55.5
0°-60°	1743.7	86.1
0°-90°	2024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2024.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	924	922	922	926	928	88
15°	879	880	884	894	899	248
25°	793	796	802	812	817	364
35°	657	663	665	681	691	409
45°	471	473	480	482	487	362
55°	288	281	281	271	277	259
65°	164	145	130	150	159	166
75°	93	84	70	98	106	100
85°	36	34	32	42	46	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	926.9	926.9	926.9	926.9	926.9
2.5°	927.4	925.0	924.1	927.9	930.2
5°	923.6	921.7	922.2	925.5	927.9
7.5°	917.0	915.6	915.6	920.3	922.7
10°	907.6	907.1	907.1	912.8	916.1
12.5°	894.4	894.9	896.8	904.3	910.0
15°	878.9	879.8	883.6	894.4	899.1
17.5°	861.9	861.9	869.5	877.9	883.6
20°	840.3	841.7	850.1	859.6	865.2
22.5°	818.1	820.5	827.5	838.4	843.6
25°	793.2	796.0	802.1	812.5	816.7
27.5°	764.0	767.7	774.3	781.9	790.8
30°	730.5	736.2	740.4	750.8	760.7
32.5°	696.6	701.8	706.5	717.3	728.6
35°	657.0	662.7	664.6	680.6	691.4
37.5°	616.5	618.9	619.8	635.8	647.6
40°	568.0	572.7	574.1	586.9	594.4
42.5°	521.4	523.3	526.1	535.5	544.5
45°	471.0	473.4	479.5	482.3	487.0
47.5°	418.2	425.3	432.4	423.4	423.9
50°	370.2	375.9	383.4	366.4	366.4
52.5°	327.3	330.2	330.6	316.5	319.3
55°	288.2	281.2	280.7	271.3	276.9
57.5°	249.2	239.7	236.4	233.6	240.2
60°	217.6	200.6	195.9	200.2	209.1
62.5°	191.7	170.0	161.1	171.9	179.9
65°	164.4	144.6	130.0	150.2	158.7
67.5°	143.2	124.3	105.5	134.2	140.4
70°	123.4	108.8	87.1	122.0	126.7
72.5°	107.4	96.1	75.4	110.2	115.9
75°	93.3	83.8	69.7	97.5	106.4
77.5°	82.0	71.6	65.0	84.3	95.1
80°	69.2	58.9	58.9	70.6	80.5
82.5°	54.6	46.2	47.6	57.5	64.5
85°	36.3	33.9	32.0	41.9	45.7
87.5°	18.4	18.8	17.0	21.7	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)