

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: P292269

Luminaire Tested: **22GR-LD5-24-A-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292269
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-L92765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2081.0 lumens
Efficiency: N/A
Efficacy: 114.8 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

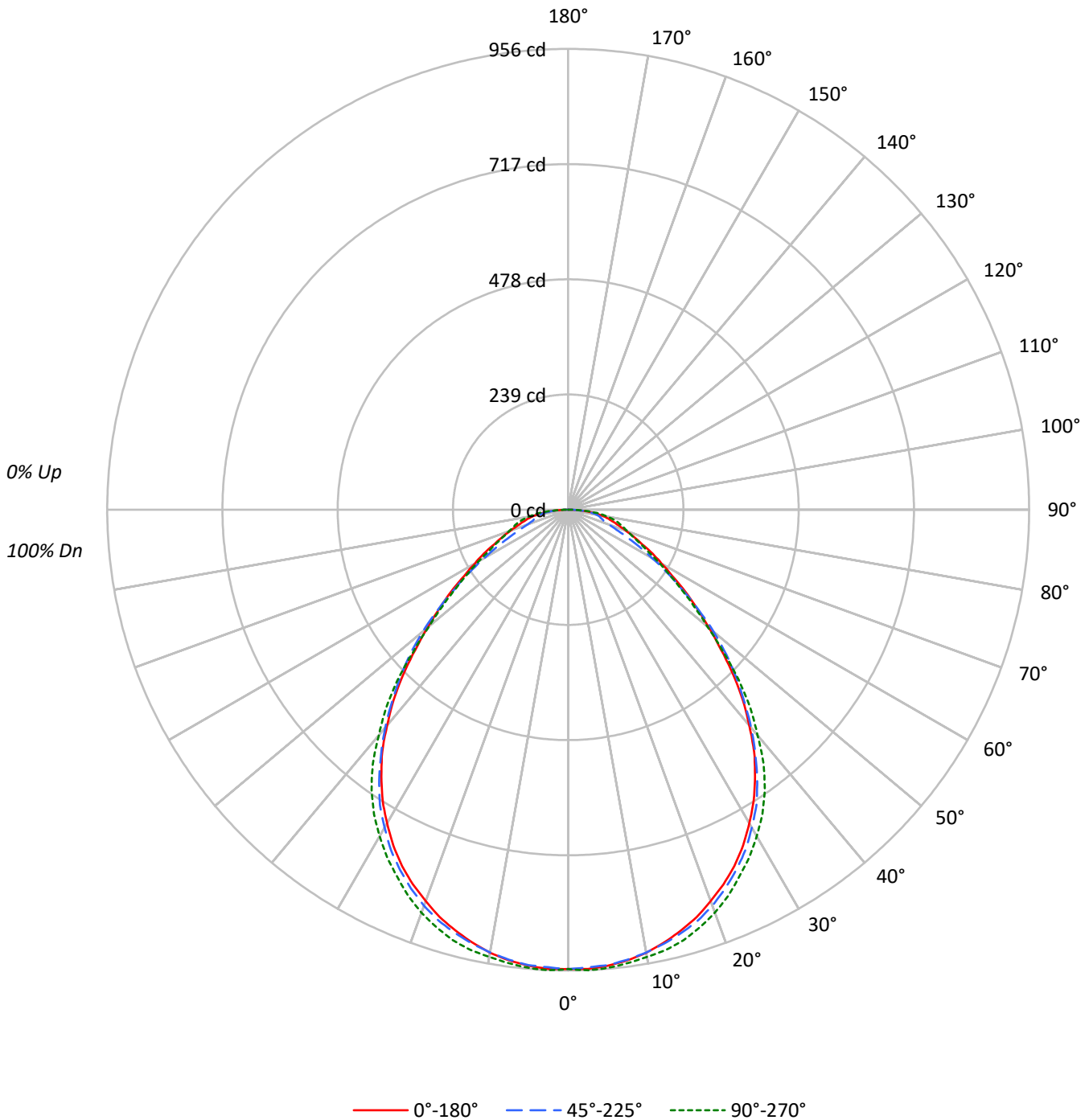
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2565	2565	2565
5°	2565	2561	2577
10°	2550	2549	2574
15°	2517	2531	2576
20°	2474	2503	2548
25°	2421	2449	2493
30°	2334	2366	2430
35°	2219	2245	2335
40°	2051	2074	2147
45°	1843	1876	1905
50°	1593	1650	1577
55°	1391	1354	1336
60°	1204	1084	1157
65°	1076	851	1039
70°	998	705	1025
75°	997	745	1137
80°	1103	938	1283
85°	1152	1016	1451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	4.3
10°-20°	256.9	12.3
20°-30°	379.9	18.3
30°-40°	428.7	20.6
40°-50°	377.9	18.2
50°-60°	259.2	12.5
60°-70°	153.0	7.4
70°-80°	95.5	4.6
80°-90°	39.8	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°	726.9	34.9
0°-40°	1155.6	55.5
0°-60°	1792.8	86.1
0°-90°	2081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	953	953	953	953	953	
5°	950	948	948	952	954	90
15°	904	905	908	920	924	255
25°	816	818	825	835	840	375
35°	676	681	683	700	711	421
45°	484	487	493	496	501	372
55°	296	289	289	279	285	266
65°	169	149	134	154	163	170
75°	96	86	72	100	109	103
85°	37	35	33	43	47	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	953.0	953.0	953.0	953.0	953.0
2.5°	953.5	951.1	950.1	954.0	956.4
5°	949.6	947.7	948.2	951.6	954.0
7.5°	942.9	941.4	941.4	946.2	948.7
10°	933.2	932.7	932.7	938.5	941.9
12.5°	919.6	920.1	922.0	929.8	935.6
15°	903.6	904.6	908.5	919.6	924.5
17.5°	886.2	886.2	893.9	902.7	908.5
20°	863.9	865.4	874.1	883.8	889.6
22.5°	841.2	843.6	850.8	862.0	867.3
25°	815.5	818.4	824.7	835.3	839.7
27.5°	785.5	789.3	796.1	803.9	813.1
30°	751.1	756.9	761.3	771.9	782.1
32.5°	716.2	721.5	726.4	737.5	749.1
35°	675.5	681.4	683.3	699.8	710.9
37.5°	633.9	636.3	637.3	653.8	665.9
40°	584.0	588.9	590.3	603.4	611.1
42.5°	536.1	538.0	540.9	550.6	559.8
45°	484.3	486.7	493.0	495.9	500.7
47.5°	430.0	437.3	444.6	435.3	435.8
50°	380.6	386.4	394.2	376.8	376.8
52.5°	336.6	339.5	340.0	325.4	328.3
55°	296.4	289.1	288.6	278.9	284.7
57.5°	256.2	246.5	243.1	240.2	247.0
60°	223.7	206.3	201.5	205.8	215.0
62.5°	197.1	174.8	165.6	176.8	185.0
65°	169.0	148.7	133.7	154.5	163.2
67.5°	147.2	127.8	108.5	138.0	144.3
70°	126.9	111.9	89.6	125.4	130.3
72.5°	110.4	98.8	77.5	113.3	119.1
75°	95.9	86.2	71.7	100.2	109.4
77.5°	84.3	73.6	66.8	86.7	97.8
80°	71.2	60.5	60.5	72.6	82.8
82.5°	56.2	47.5	48.9	59.1	66.3
85°	37.3	34.9	32.9	43.1	47.0
87.5°	18.9	19.4	17.4	22.3	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)