

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: P291741

Luminaire Tested: **22GR-LD5-24-F1-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-F1-UNV-L83050-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2586.0 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

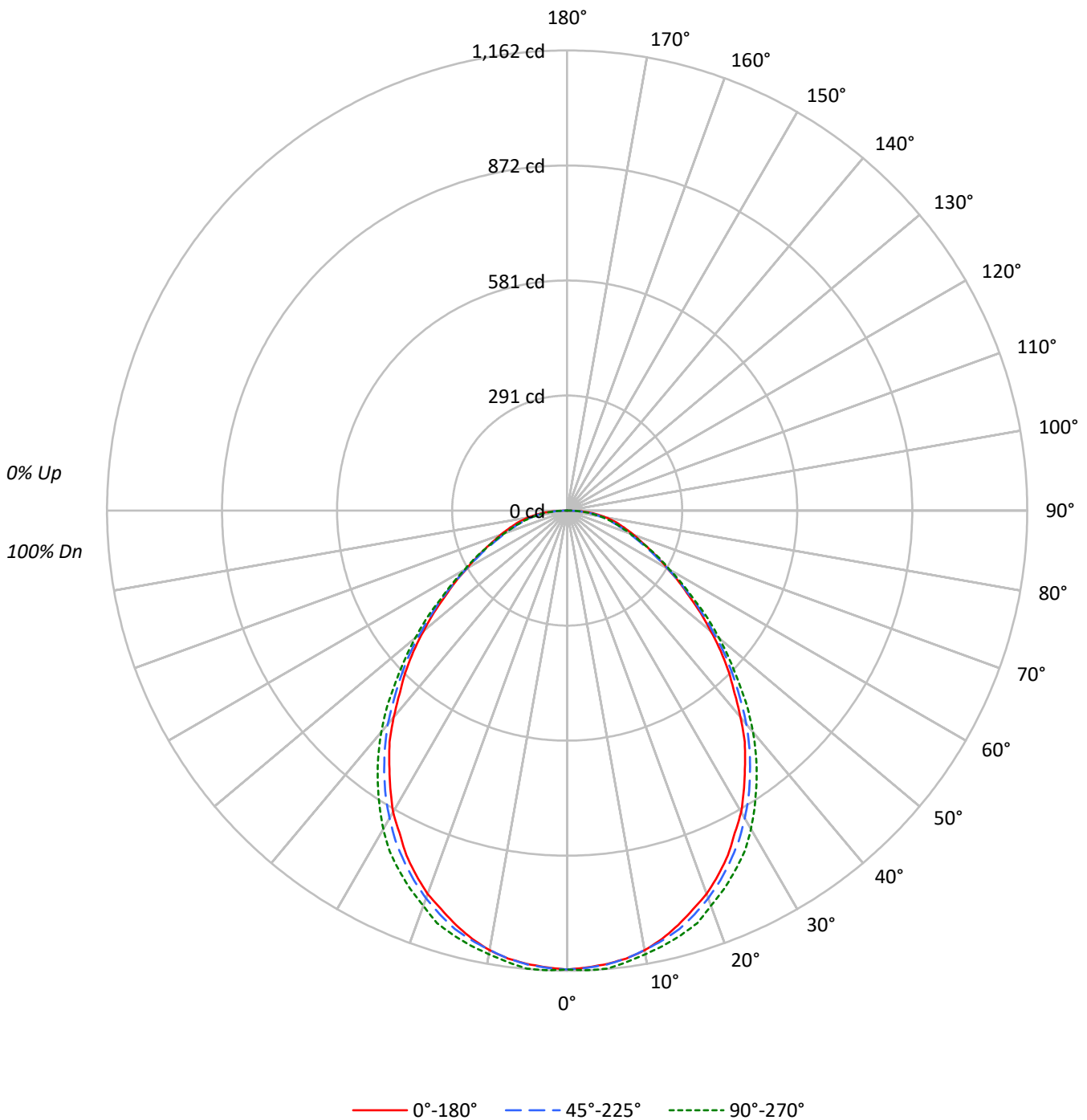
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38					38			
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34					34			
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3118	3118	3118
5°	3105	3108	3137
10°	3081	3079	3108
15°	3018	3048	3093
20°	2950	2983	3041
25°	2852	2898	2979
30°	2732	2787	2885
35°	2572	2646	2739
40°	2393	2475	2564
45°	2197	2261	2331
50°	1982	2032	2096
55°	1758	1800	1831
60°	1576	1579	1611
65°	1452	1403	1452
70°	1402	1299	1337
75°	1426	1273	1297
80°	1537	1334	1334
85°	1704	1411	1392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	4.2
10°-20°	308.3	11.9
20°-30°	450.0	17.4
30°-40°	503.8	19.5
40°-50°	458.5	17.7
50°-60°	345.1	13.3
60°-70°	225.2	8.7
70°-80°	135.1	5.2
80°-90°	50.7	2.0
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°	867.6	33.6
0°-40°	1371.4	53.0
0°-60°	2175.1	84.1
0°-90°	2586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1149	1148	1150	1155	1161	109
15°	1083	1085	1094	1103	1110	305
25°	960	963	976	994	1003	441
35°	783	790	805	824	834	489
45°	577	583	594	606	612	444
55°	375	380	384	389	390	339
65°	228	226	220	224	228	228
75°	137	132	122	123	125	146
85°	55	54	46	43	45	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1158.8	1158.8	1158.8	1158.8	1158.8
2.5°	1154.7	1154.1	1155.9	1158.8	1161.8
5°	1149.3	1147.6	1150.5	1154.7	1161.2
7.5°	1141.0	1141.0	1141.0	1148.7	1149.9
10°	1127.4	1128.5	1126.8	1134.5	1137.5
12.5°	1107.8	1108.4	1111.9	1119.6	1125.0
15°	1083.4	1084.6	1094.1	1103.0	1110.1
17.5°	1056.1	1060.2	1069.2	1083.4	1092.3
20°	1030.0	1034.7	1041.8	1057.3	1062.0
22.5°	996.7	1002.0	1010.9	1024.6	1034.7
25°	960.5	963.4	975.9	993.7	1003.2
27.5°	917.1	923.6	939.1	957.5	970.6
30°	879.1	882.6	896.9	918.3	928.4
32.5°	831.0	841.7	853.5	872.5	882.1
35°	782.9	790.0	805.4	824.4	833.9
37.5°	736.5	740.7	756.1	772.2	784.0
40°	681.3	689.0	704.5	721.7	730.0
42.5°	626.0	637.3	647.4	664.7	673.6
45°	577.3	583.3	594.0	606.4	612.4
47.5°	526.3	529.2	541.7	549.4	556.0
50°	473.4	477.0	485.3	493.0	500.7
52.5°	424.7	427.7	433.0	440.1	447.9
55°	374.8	380.1	383.7	389.1	390.2
57.5°	334.4	333.8	336.2	340.3	344.5
60°	292.8	294.0	293.4	297.6	299.4
62.5°	258.4	257.8	254.2	260.2	264.9
65°	228.1	225.7	220.4	223.9	228.1
67.5°	200.2	199.0	190.1	193.0	196.6
70°	178.2	174.0	165.1	166.9	169.9
72.5°	156.8	152.1	143.1	143.7	145.5
75°	137.2	132.5	122.4	123.0	124.7
77.5°	118.8	112.9	103.9	102.8	103.9
80°	99.2	93.8	86.1	82.6	86.1
82.5°	79.0	76.0	67.1	63.6	64.7
85°	55.2	53.5	45.7	43.4	45.1
87.5°	25.5	27.3	23.2	21.4	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)