

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: P291877

Luminaire Tested: **22GR-LD5-24-F1-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291877
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-L92765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2088.0 lumens
Efficiency: N/A
Efficacy: 115.1 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

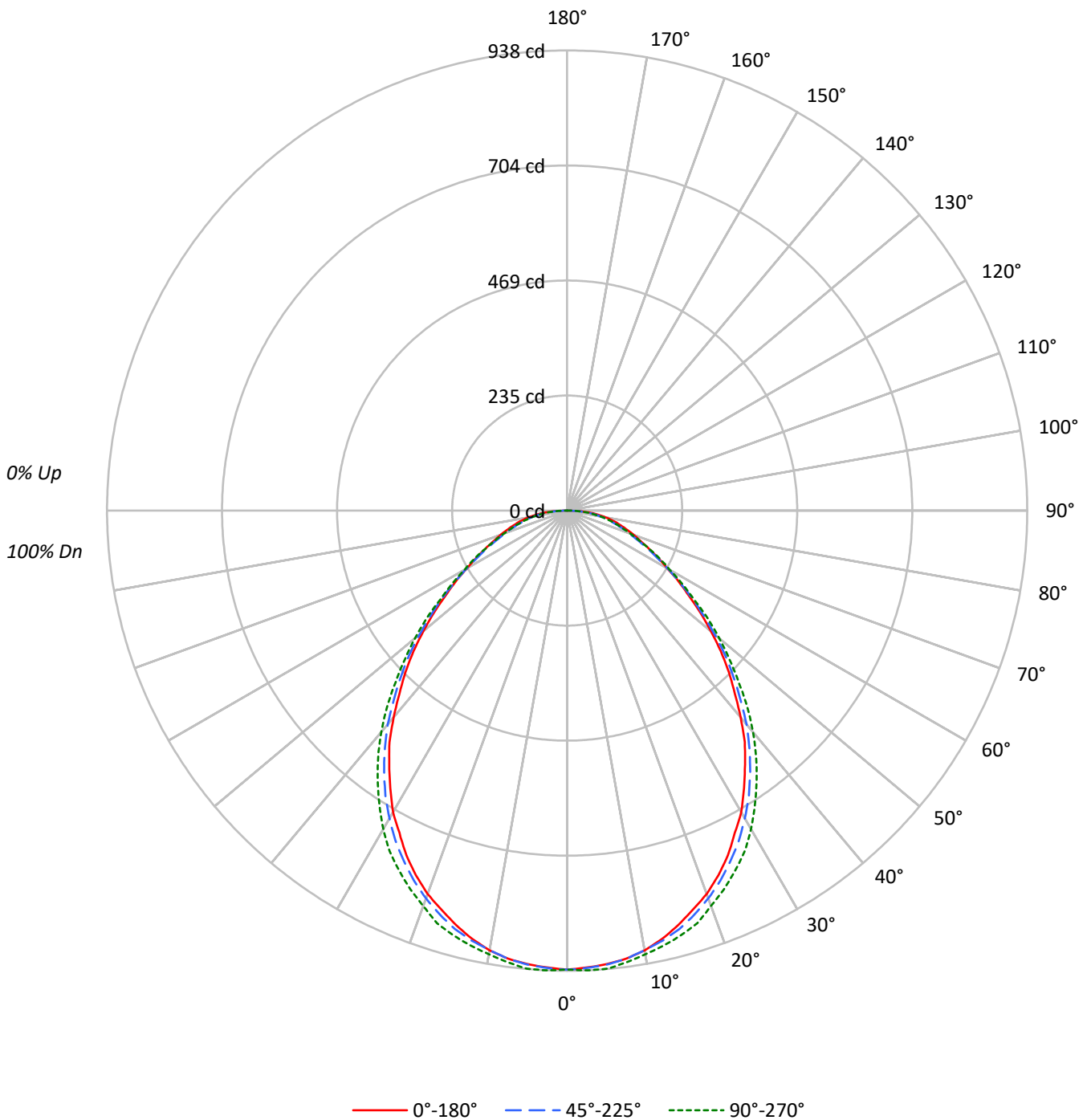
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2518	2518	2518
5°	2507	2509	2533
10°	2487	2486	2510
15°	2437	2461	2497
20°	2381	2409	2456
25°	2303	2340	2405
30°	2206	2250	2329
35°	2076	2136	2212
40°	1932	1998	2070
45°	1774	1825	1882
50°	1600	1640	1693
55°	1420	1453	1478
60°	1272	1275	1301
65°	1173	1133	1173
70°	1132	1049	1079
75°	1152	1027	1047
80°	1241	1077	1077
85°	1377	1139	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	4.2
10°-20°	249.0	11.9
20°-30°	363.3	17.4
30°-40°	406.8	19.5
40°-50°	370.2	17.7
50°-60°	278.6	13.3
60°-70°	181.8	8.7
70°-80°	109.1	5.2
80°-90°	40.9	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°	700.6	33.6
0°-40°	1107.3	53.0
0°-60°	1756.2	84.1
0°-90°	2088.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2088.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	928	927	929	932	938	88
15°	875	876	883	891	896	246
25°	776	778	788	802	810	356
35°	632	638	650	666	673	395
45°	466	471	480	490	494	359
55°	303	307	310	314	315	273
65°	184	182	178	181	184	184
75°	111	107	99	99	101	118
85°	45	43	37	35	36	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	935.7	935.7	935.7	935.7	935.7
2.5°	932.3	931.8	933.3	935.7	938.1
5°	928.0	926.6	929.0	932.3	937.6
7.5°	921.3	921.3	921.3	927.5	928.5
10°	910.3	911.2	909.8	916.0	918.4
12.5°	894.4	894.9	897.8	904.0	908.3
15°	874.8	875.7	883.4	890.6	896.4
17.5°	852.7	856.1	863.3	874.8	882.0
20°	831.6	835.4	841.2	853.7	857.5
22.5°	804.8	809.1	816.3	827.3	835.4
25°	775.5	777.9	788.0	802.4	810.0
27.5°	740.5	745.8	758.2	773.1	783.6
30°	709.8	712.7	724.2	741.4	749.6
32.5°	670.9	679.6	689.2	704.5	712.2
35°	632.1	637.9	650.3	665.7	673.3
37.5°	594.7	598.0	610.5	623.5	633.1
40°	550.1	556.3	568.8	582.7	589.4
42.5°	505.5	514.6	522.8	536.7	543.9
45°	466.2	471.0	479.6	489.7	494.5
47.5°	424.9	427.3	437.4	443.6	448.9
50°	382.2	385.1	391.8	398.1	404.3
52.5°	342.9	345.3	349.6	355.4	361.6
55°	302.6	306.9	309.8	314.1	315.1
57.5°	270.0	269.5	271.4	274.8	278.2
60°	236.4	237.4	236.9	240.3	241.7
62.5°	208.6	208.1	205.3	210.1	213.9
65°	184.2	182.2	177.9	180.8	184.2
67.5°	161.6	160.7	153.5	155.9	158.7
70°	143.9	140.5	133.3	134.8	137.2
72.5°	126.6	122.8	115.6	116.1	117.5
75°	110.8	106.9	98.8	99.3	100.7
77.5°	95.9	91.1	83.9	83.0	83.9
80°	80.1	75.8	69.5	66.7	69.5
82.5°	63.8	61.4	54.2	51.3	52.3
85°	44.6	43.2	36.9	35.0	36.4
87.5°	20.6	22.1	18.7	17.3	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)