

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: P292099

Luminaire Tested: **22GR-LD5-36-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-36-F125-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2948.0 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

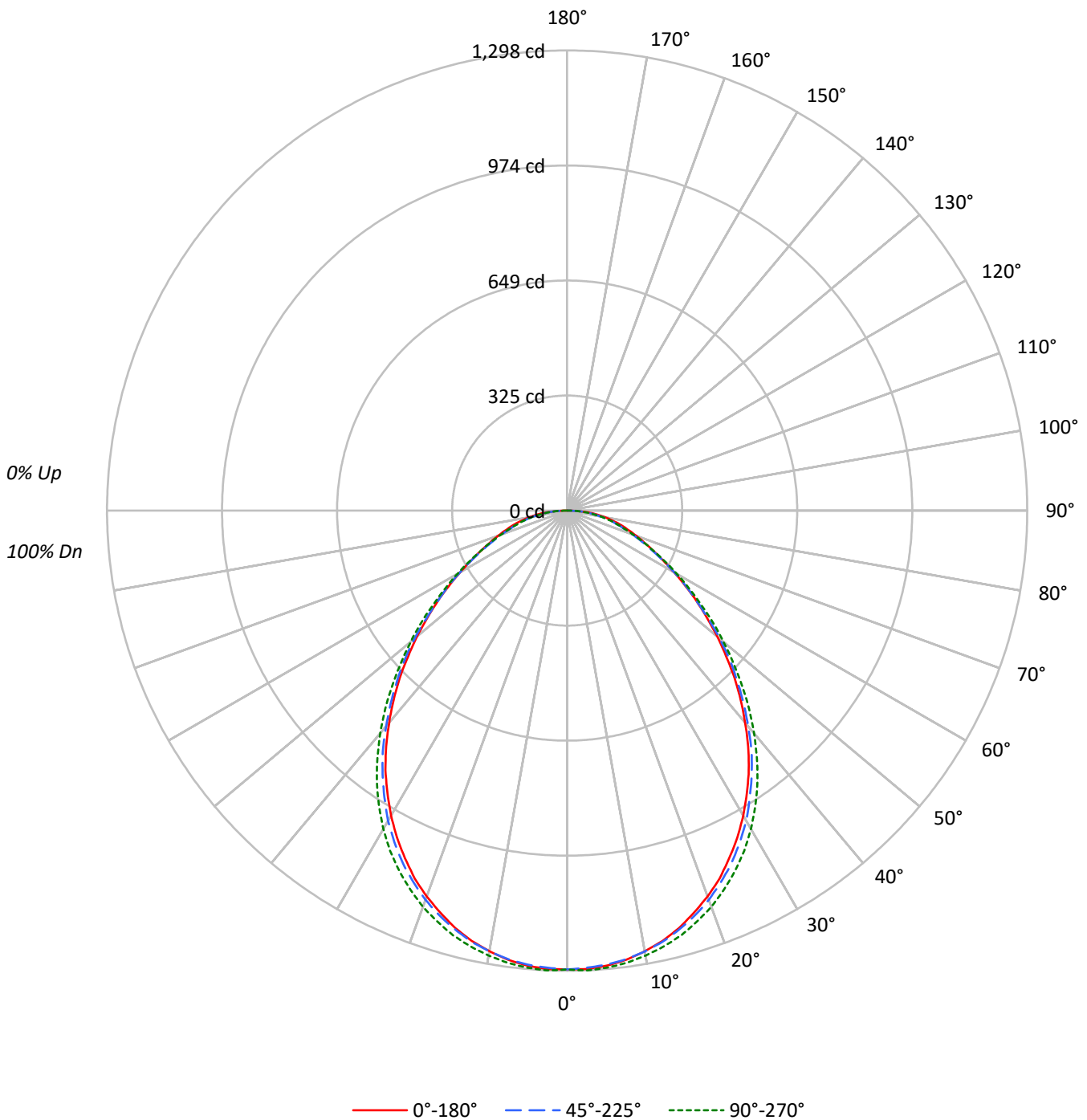
Input Watts (W): 27.807
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3483	3483	3483
5°	3481	3472	3496
10°	3448	3450	3482
15°	3396	3407	3457
20°	3316	3346	3406
25°	3213	3258	3329
30°	3086	3139	3222
35°	2935	2982	3074
40°	2744	2790	2881
45°	2541	2580	2655
50°	2314	2351	2411
55°	2089	2096	2157
60°	1874	1881	1925
65°	1707	1673	1712
70°	1626	1533	1561
75°	1635	1480	1487
80°	1695	1494	1485
85°	1859	1584	1501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	4.1
10°-20°	345.4	11.7
20°-30°	505.5	17.1
30°-40°	568.4	19.3
40°-50°	524.2	17.8
50°-60°	404.0	13.7
60°-70°	266.6	9.0
70°-80°	155.2	5.3
80°-90°	56.5	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°	973.2	33.0
0°-40°	1541.6	52.3
0°-60°	2469.8	83.8
0°-90°	2948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1289	1286	1285	1291	1294	122
15°	1219	1219	1223	1234	1241	343
25°	1082	1088	1097	1112	1121	498
35°	893	897	908	926	936	557
45°	668	668	678	692	698	514
55°	445	445	447	454	460	400
65°	268	267	263	265	269	269
75°	157	150	142	140	143	166
85°	60	60	51	47	49	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1294.2	1294.2	1294.2	1294.2	1294.2
2.5°	1294.2	1291.4	1290.8	1295.6	1298.3
5°	1288.7	1286.0	1285.3	1291.4	1294.2
7.5°	1277.8	1275.7	1276.4	1283.2	1286.7
10°	1262.0	1261.4	1262.7	1270.2	1274.3
12.5°	1243.6	1242.9	1245.6	1253.8	1259.3
15°	1218.9	1218.9	1223.0	1234.0	1240.8
17.5°	1189.5	1191.6	1197.7	1208.7	1216.2
20°	1158.1	1160.1	1168.3	1180.6	1189.5
22.5°	1123.2	1125.9	1134.1	1149.2	1156.7
25°	1082.1	1087.6	1097.2	1112.2	1121.1
27.5°	1039.7	1045.9	1054.8	1073.2	1081.5
30°	993.2	997.3	1010.3	1027.4	1037.0
32.5°	944.0	948.1	959.0	979.5	987.7
35°	893.3	897.4	907.7	926.2	935.8
37.5°	838.6	842.0	854.4	868.7	879.0
40°	781.2	786.0	794.2	811.3	820.2
42.5°	725.1	727.1	736.0	753.1	760.0
45°	667.6	668.3	677.9	691.6	697.7
47.5°	608.1	609.5	621.1	629.3	635.5
50°	552.7	553.4	561.6	569.1	576.0
52.5°	497.3	497.3	501.4	509.6	518.5
55°	445.3	444.6	446.7	454.2	459.7
57.5°	396.1	395.4	398.1	402.9	407.0
60°	348.2	346.8	349.5	352.3	357.7
62.5°	305.8	307.1	303.7	307.8	311.9
65°	268.1	266.8	262.7	264.7	268.8
67.5°	236.0	233.9	227.1	228.5	233.3
70°	206.6	202.5	194.9	194.9	198.4
72.5°	179.9	175.8	166.2	166.9	168.3
75°	157.3	150.5	142.3	139.5	143.0
77.5°	132.7	127.2	119.7	117.7	119.0
80°	109.4	105.3	96.4	93.7	95.8
82.5°	86.9	83.5	73.2	71.1	71.8
85°	60.2	59.5	51.3	47.2	48.6
87.5°	32.1	32.8	26.7	23.9	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)