

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: P292043

Luminaire Tested: **22GR-LD5-32-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292043
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-LD5-32-F125-UNV-L93050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2740.0 lumens
Efficiency: N/A
Efficacy: 109.5 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

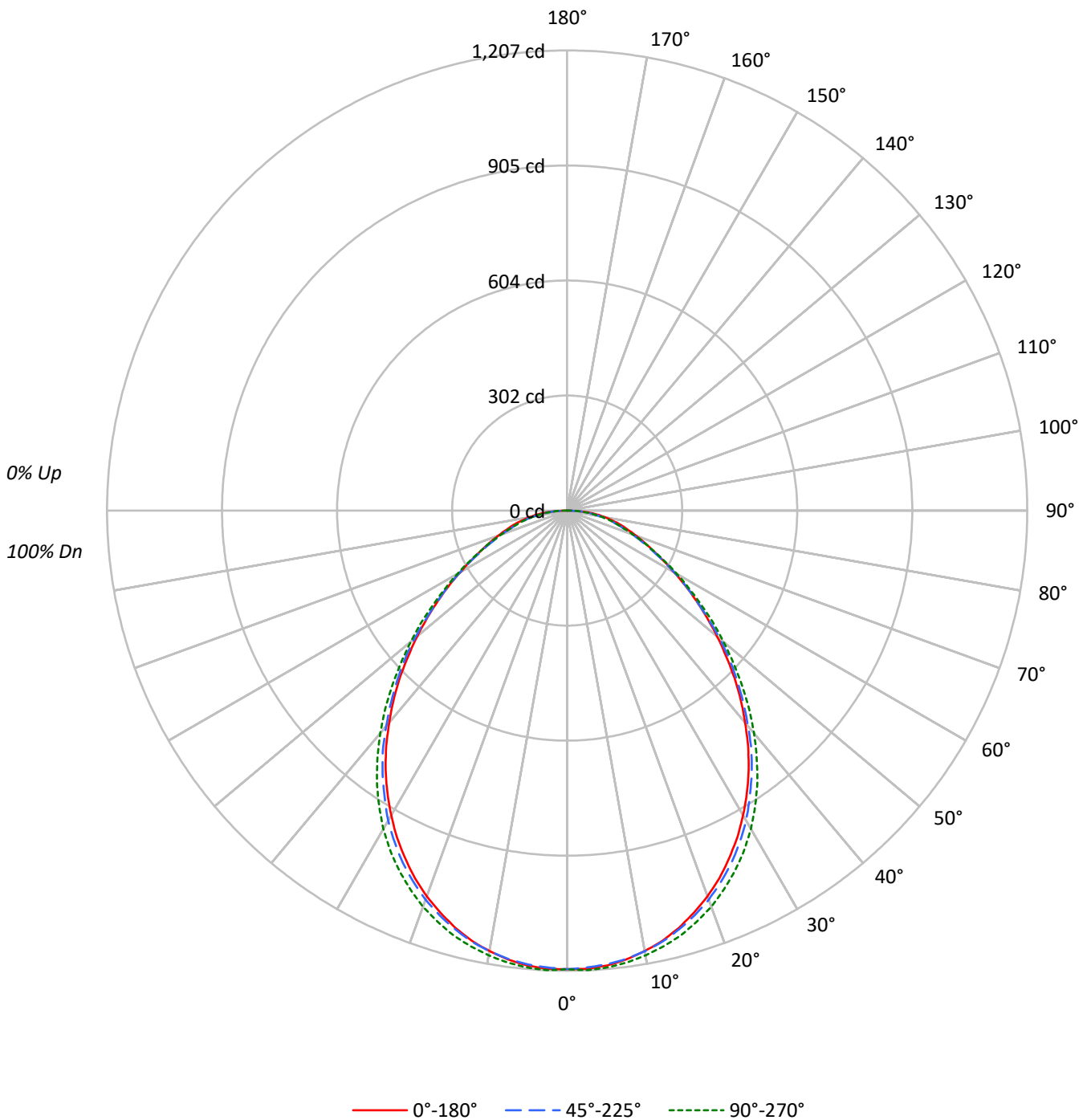
Input Watts (W): 25.017
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3237	3237	3237
5°	3236	3227	3249
10°	3205	3207	3236
15°	3156	3167	3213
20°	3082	3110	3166
25°	2986	3028	3094
30°	2868	2918	2995
35°	2728	2772	2857
40°	2550	2593	2678
45°	2361	2398	2468
50°	2151	2185	2241
55°	1942	1948	2004
60°	1742	1749	1790
65°	1587	1554	1591
70°	1511	1426	1451
75°	1520	1375	1382
80°	1576	1389	1379
85°	1726	1473	1392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	4.1
10°-20°	321.0	11.7
20°-30°	469.9	17.1
30°-40°	528.3	19.3
40°-50°	487.2	17.8
50°-60°	375.5	13.7
60°-70°	247.8	9.0
70°-80°	144.2	5.3
80°-90°	52.5	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°	904.5	33.0
0°-40°	1432.8	52.3
0°-60°	2295.5	83.8
0°-90°	2740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2740.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1203	1203	1203	1203	1203	
5°	1198	1195	1195	1200	1203	114
15°	1133	1133	1137	1147	1153	319
25°	1006	1011	1020	1034	1042	463
35°	830	834	844	861	870	518
45°	620	621	630	643	648	478
55°	414	413	415	422	427	371
65°	249	248	244	246	250	250
75°	146	140	132	130	133	154
85°	56	55	48	44	45	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1202.9	1202.9	1202.9	1202.9	1202.9
2.5°	1202.9	1200.3	1199.7	1204.1	1206.7
5°	1197.8	1195.2	1194.6	1200.3	1202.9
7.5°	1187.6	1185.7	1186.3	1192.7	1195.9
10°	1173.0	1172.4	1173.6	1180.6	1184.4
12.5°	1155.8	1155.2	1157.7	1165.4	1170.4
15°	1132.9	1132.9	1136.8	1146.9	1153.3
17.5°	1105.6	1107.5	1113.2	1123.4	1130.4
20°	1076.4	1078.3	1085.9	1097.3	1105.6
22.5°	1043.9	1046.5	1054.1	1068.1	1075.1
25°	1005.8	1010.9	1019.8	1033.8	1042.0
27.5°	966.4	972.1	980.4	997.5	1005.1
30°	923.1	926.9	939.0	954.9	963.8
32.5°	877.4	881.2	891.3	910.4	918.0
35°	830.3	834.1	843.7	860.8	869.7
37.5°	779.5	782.6	794.1	807.4	817.0
40°	726.0	730.5	738.1	754.0	762.3
42.5°	673.9	675.8	684.1	700.0	706.3
45°	620.5	621.1	630.0	642.8	648.5
47.5°	565.2	566.5	577.3	584.9	590.6
50°	513.7	514.3	522.0	529.0	535.3
52.5°	462.2	462.2	466.0	473.6	481.9
55°	413.9	413.2	415.2	422.1	427.2
57.5°	368.1	367.5	370.0	374.5	378.3
60°	323.6	322.3	324.9	327.4	332.5
62.5°	284.2	285.5	282.3	286.1	289.9
65°	249.2	247.9	244.1	246.0	249.9
67.5°	219.3	217.4	211.1	212.3	216.8
70°	192.0	188.2	181.2	181.2	184.4
72.5°	167.2	163.4	154.5	155.1	156.4
75°	146.2	139.9	132.2	129.7	132.9
77.5°	123.3	118.3	111.3	109.4	110.6
80°	101.7	97.9	89.6	87.1	89.0
82.5°	80.7	77.6	68.0	66.1	66.8
85°	55.9	55.3	47.7	43.9	45.1
87.5°	29.9	30.5	24.8	22.3	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)