

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: P292086

Luminaire Tested: **22GR-LD5-28-F125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292086
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-LD5-28-F125-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2739.0 lumens
Efficiency: N/A
Efficacy: 120.7 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

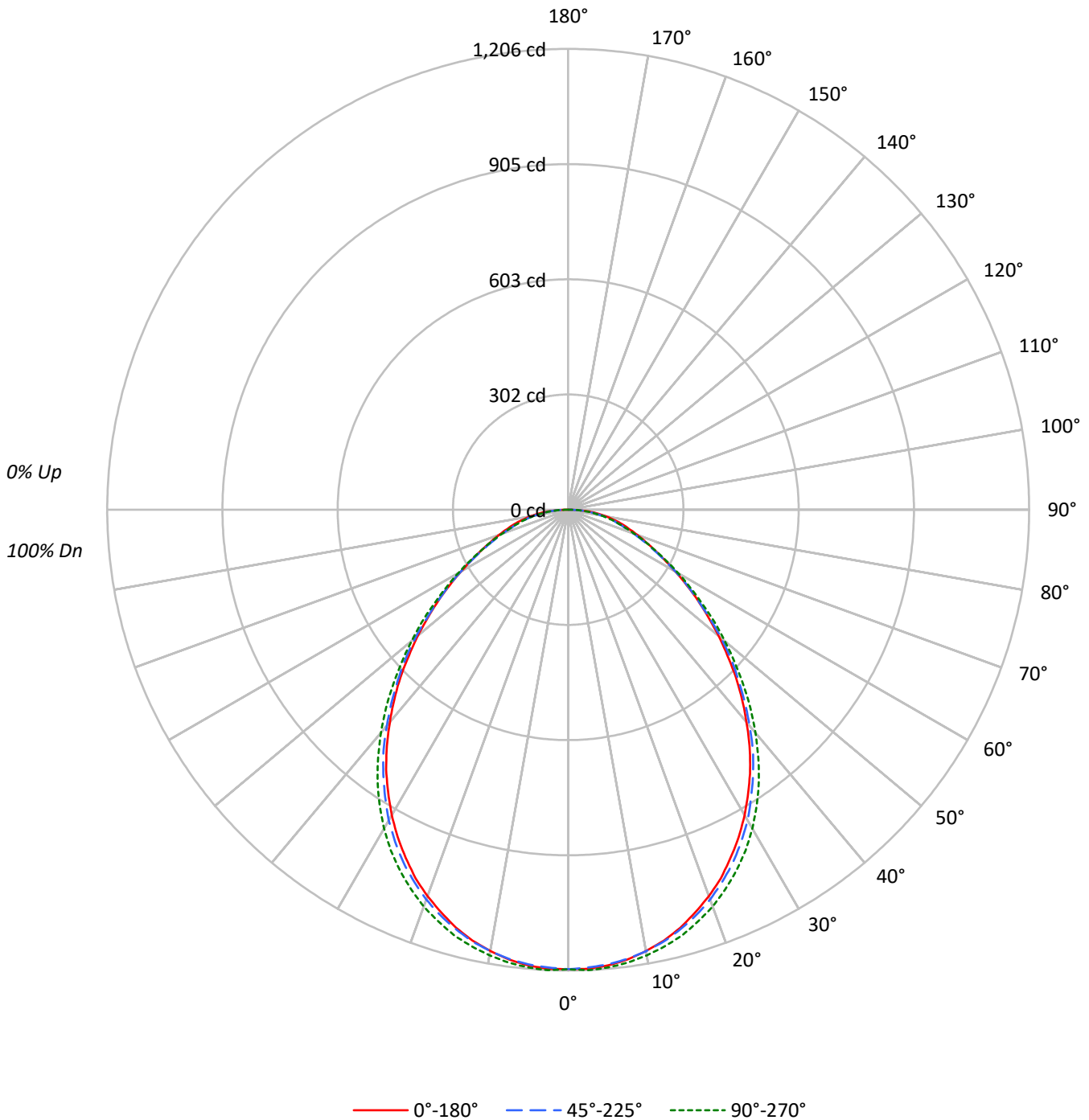
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3236	3236	3236
5°	3234	3226	3248
10°	3204	3206	3235
15°	3155	3166	3212
20°	3081	3109	3165
25°	2985	3027	3093
30°	2867	2917	2994
35°	2727	2771	2856
40°	2550	2592	2677
45°	2361	2397	2467
50°	2150	2184	2240
55°	1941	1947	2004
60°	1741	1748	1789
65°	1586	1554	1591
70°	1510	1425	1450
75°	1520	1375	1381
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°	320.9	11.7
20°-30°	469.7	17.1
30°-40°	528.1	19.3
40°-50°	487.0	17.8
50°-60°	375.3	13.7
60°-70°	247.7	9.0
70°-80°	144.1	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°	904.2	33.0
0°-40°	1432.3	52.3
0°-60°	2294.6	83.8
0°-90°	2739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1197	1195	1194	1200	1202	113
15°	1132	1132	1136	1146	1153	319
25°	1005	1010	1019	1033	1042	462
35°	830	834	843	860	869	518
45°	620	621	630	642	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°	1202.4	1202.4	1202.4	1202.4	1202.4
2.5°	1202.4	1199.9	1199.3	1203.7	1206.2
5°	1197.3	1194.8	1194.2	1199.9	1202.4
7.5°	1187.2	1185.3	1185.9	1192.3	1195.4
10°	1172.6	1171.9	1173.2	1180.2	1184.0
12.5°	1155.4	1154.8	1157.3	1164.9	1170.0
15°	1132.5	1132.5	1136.3	1146.5	1152.9
17.5°	1105.2	1107.1	1112.8	1123.0	1130.0
20°	1076.0	1077.9	1085.5	1096.9	1105.2
22.5°	1043.5	1046.1	1053.7	1067.7	1074.7
25°	1005.4	1010.5	1019.4	1033.4	1041.6
27.5°	966.0	971.7	980.0	997.2	1004.8
30°	922.8	926.6	938.7	954.6	963.5
32.5°	877.0	880.9	891.0	910.1	917.7
35°	830.0	833.8	843.4	860.5	869.4
37.5°	779.2	782.3	793.8	807.1	816.7
40°	725.8	730.2	737.9	753.7	762.0
42.5°	673.7	675.6	683.8	699.7	706.1
45°	620.3	620.9	629.8	642.5	648.2
47.5°	565.0	566.3	577.1	584.7	590.4
50°	513.5	514.1	521.8	528.8	535.1
52.5°	462.0	462.0	465.8	473.5	481.7
55°	413.7	413.1	415.0	422.0	427.1
57.5°	368.0	367.3	369.9	374.3	378.1
60°	323.5	322.2	324.8	327.3	332.4
62.5°	284.1	285.4	282.2	286.0	289.8
65°	249.1	247.9	244.0	246.0	249.8
67.5°	219.3	217.4	211.0	212.3	216.7
70°	191.9	188.1	181.1	181.1	184.3
72.5°	167.1	163.3	154.4	155.1	156.3
75°	146.2	139.8	132.2	129.6	132.8
77.5°	123.3	118.2	111.2	109.3	110.6
80°	101.7	97.9	89.6	87.1	89.0
82.5°	80.7	77.5	68.0	66.1	66.7
85°	55.9	55.3	47.7	43.9	45.1
87.5°	29.9	30.5	24.8	22.2	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)