

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: P292088

Luminaire Tested: **22GR-LD5-28-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292088
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-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2769.0 lumens
Efficiency: N/A
Efficacy: 120.1 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

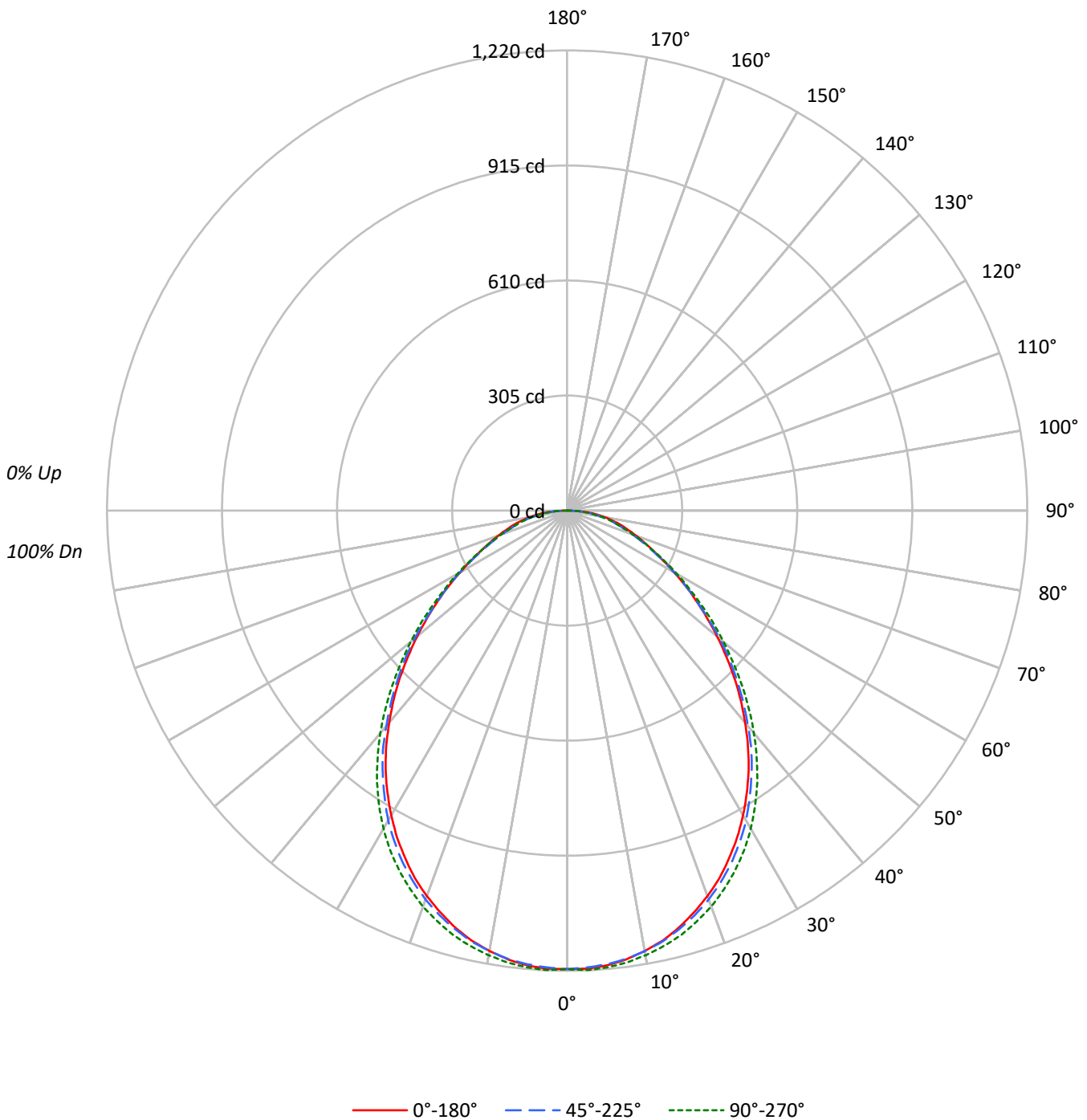
Input Watts (W): 23.064
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3271	3271	3271
5°	3270	3261	3284
10°	3239	3241	3271
15°	3190	3200	3247
20°	3115	3143	3200
25°	3018	3060	3127
30°	2899	2949	3026
35°	2757	2801	2887
40°	2577	2620	2706
45°	2387	2423	2494
50°	2173	2208	2265
55°	1962	1968	2026
60°	1760	1767	1808
65°	1604	1571	1608
70°	1526	1441	1466
75°	1537	1389	1396
80°	1593	1404	1393
85°	1744	1488	1408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	4.1
10°-20°	324.4	11.7
20°-30°	474.8	17.1
30°-40°	533.9	19.3
40°-50°	492.3	17.8
50°-60°	379.5	13.7
60°-70°	250.4	9.0
70°-80°	145.7	5.3
80°-90°	53.1	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°	914.1	33.0
0°-40°	1448.0	52.3
0°-60°	2319.8	83.8
0°-90°	2769.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2769.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1210	1208	1207	1213	1216	115
15°	1145	1145	1149	1159	1166	322
25°	1016	1022	1031	1045	1053	468
35°	839	843	853	870	879	523
45°	627	628	637	650	655	483
55°	418	418	420	427	432	375
65°	252	251	247	249	252	253
75°	148	141	134	131	134	156
85°	56	56	48	44	46	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1215.6	1215.6	1215.6	1215.6	1215.6
2.5°	1215.6	1213.0	1212.4	1216.9	1219.5
5°	1210.5	1207.9	1207.3	1213.0	1215.6
7.5°	1200.2	1198.3	1198.9	1205.3	1208.5
10°	1185.4	1184.8	1186.0	1193.1	1197.0
12.5°	1168.1	1167.4	1170.0	1177.7	1182.8
15°	1144.9	1144.9	1148.8	1159.1	1165.5
17.5°	1117.3	1119.2	1125.0	1135.3	1142.4
20°	1087.7	1089.7	1097.4	1108.9	1117.3
22.5°	1055.0	1057.5	1065.3	1079.4	1086.5
25°	1016.4	1021.6	1030.6	1044.7	1053.1
27.5°	976.6	982.4	990.7	1008.1	1015.8
30°	932.9	936.8	949.0	965.0	974.0
32.5°	886.6	890.5	900.8	920.1	927.8
35°	839.1	843.0	852.6	869.9	878.9
37.5°	787.7	790.9	802.5	816.0	825.6
40°	733.7	738.2	745.9	762.0	770.4
42.5°	681.0	683.0	691.3	707.4	713.8
45°	627.1	627.7	636.7	649.6	655.3
47.5°	571.2	572.5	583.4	591.1	596.9
50°	519.1	519.8	527.5	534.6	541.0
52.5°	467.1	467.1	470.9	478.7	487.0
55°	418.3	417.6	419.5	426.6	431.8
57.5°	372.0	371.4	373.9	378.4	382.3
60°	327.0	325.7	328.3	330.9	336.0
62.5°	287.2	288.5	285.3	289.1	293.0
65°	251.9	250.6	246.7	248.6	252.5
67.5°	221.7	219.7	213.3	214.6	219.1
70°	194.0	190.2	183.1	183.1	186.3
72.5°	169.0	165.1	156.1	156.8	158.1
75°	147.8	141.3	133.6	131.1	134.3
77.5°	124.6	119.5	112.4	110.5	111.8
80°	102.8	98.9	90.6	88.0	89.9
82.5°	81.6	78.4	68.7	66.8	67.5
85°	56.5	55.9	48.2	44.3	45.6
87.5°	30.2	30.8	25.1	22.5	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)