

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: P292002

Luminaire Tested: **22GR-LD5-36-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292002
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-L82765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3534.0 lumens
Efficiency: N/A
Efficacy: 125.4 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

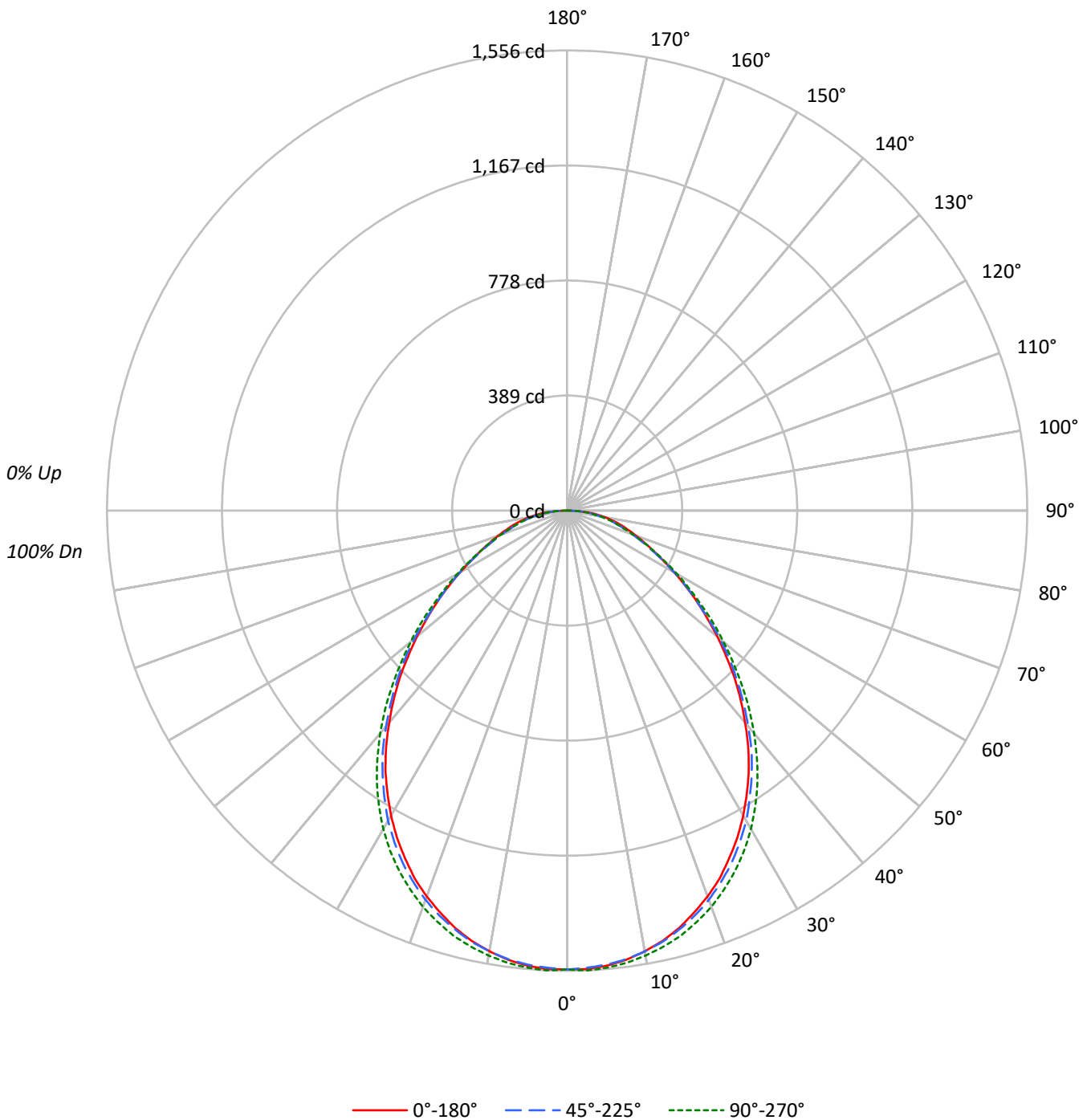
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4175	4175	4175
5°	4173	4162	4191
10°	4134	4136	4174
15°	4071	4085	4144
20°	3976	4011	4084
25°	3852	3905	3991
30°	3700	3763	3863
35°	3518	3574	3685
40°	3289	3344	3454
45°	3046	3092	3183
50°	2774	2818	2890
55°	2504	2512	2585
60°	2246	2255	2308
65°	2046	2005	2052
70°	1948	1839	1871
75°	1961	1774	1782
80°	2033	1791	1779
85°	2229	1899	1797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	4.1
10°-20°	414.0	11.7
20°-30°	606.0	17.1
30°-40°	681.4	19.3
40°-50°	628.4	17.8
50°-60°	484.3	13.7
60°-70°	319.6	9.0
70°-80°	186.0	5.3
80°-90°	67.8	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°	1166.6	33.0
0°-40°	1848.0	52.3
0°-60°	2960.7	83.8
0°-90°	3534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1551	1551	1551	1551	1551	
5°	1545	1542	1541	1548	1551	146
15°	1461	1461	1466	1479	1488	411
25°	1297	1304	1315	1333	1344	597
35°	1071	1076	1088	1110	1122	668
45°	800	801	813	829	836	616
55°	534	533	536	544	551	479
65°	321	320	315	317	322	322
75°	189	180	171	167	171	199
85°	72	71	62	57	58	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1551.4	1551.4	1551.4	1551.4	1551.4
2.5°	1551.4	1548.2	1547.3	1553.1	1556.4
5°	1544.9	1541.6	1540.8	1548.2	1551.4
7.5°	1531.8	1529.3	1530.1	1538.3	1542.4
10°	1512.9	1512.1	1513.7	1522.7	1527.7
12.5°	1490.8	1489.9	1493.2	1503.1	1509.6
15°	1461.2	1461.2	1466.2	1479.3	1487.5
17.5°	1426.0	1428.4	1435.8	1448.9	1458.0
20°	1388.3	1390.7	1400.6	1415.3	1426.0
22.5°	1346.4	1349.7	1359.6	1377.6	1386.6
25°	1297.2	1303.8	1315.3	1333.3	1344.0
27.5°	1246.4	1253.8	1264.4	1286.6	1296.4
30°	1190.6	1195.6	1211.1	1231.6	1243.1
32.5°	1131.6	1136.5	1149.6	1174.2	1184.1
35°	1070.9	1075.8	1088.1	1110.3	1121.8
37.5°	1005.3	1009.4	1024.2	1041.4	1053.7
40°	936.4	942.2	952.0	972.5	983.2
42.5°	869.2	871.7	882.3	902.8	911.0
45°	800.3	801.1	812.6	829.0	836.4
47.5°	729.0	730.6	744.6	754.4	761.8
50°	662.6	663.4	673.2	682.2	690.4
52.5°	596.1	596.1	601.1	610.9	621.6
55°	533.8	533.0	535.5	544.5	551.0
57.5°	474.8	474.0	477.2	483.0	487.9
60°	417.4	415.7	419.0	422.3	428.9
62.5°	366.5	368.2	364.1	369.0	373.9
65°	321.4	319.8	314.9	317.3	322.3
67.5°	282.9	280.4	272.2	273.9	279.6
70°	247.6	242.7	233.7	233.7	237.8
72.5°	215.7	210.7	199.3	200.1	201.7
75°	188.6	180.4	170.6	167.3	171.4
77.5°	159.1	152.5	143.5	141.0	142.7
80°	131.2	126.3	115.6	112.3	114.8
82.5°	104.1	100.0	87.7	85.3	86.1
85°	72.2	71.3	61.5	56.6	58.2
87.5°	38.5	39.4	32.0	28.7	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)