

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: P291995

Luminaire Tested: **22GR-LD5-32-F125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291995
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-L82765-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3274.0 lumens
Efficiency: N/A
Efficacy: 130.9 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

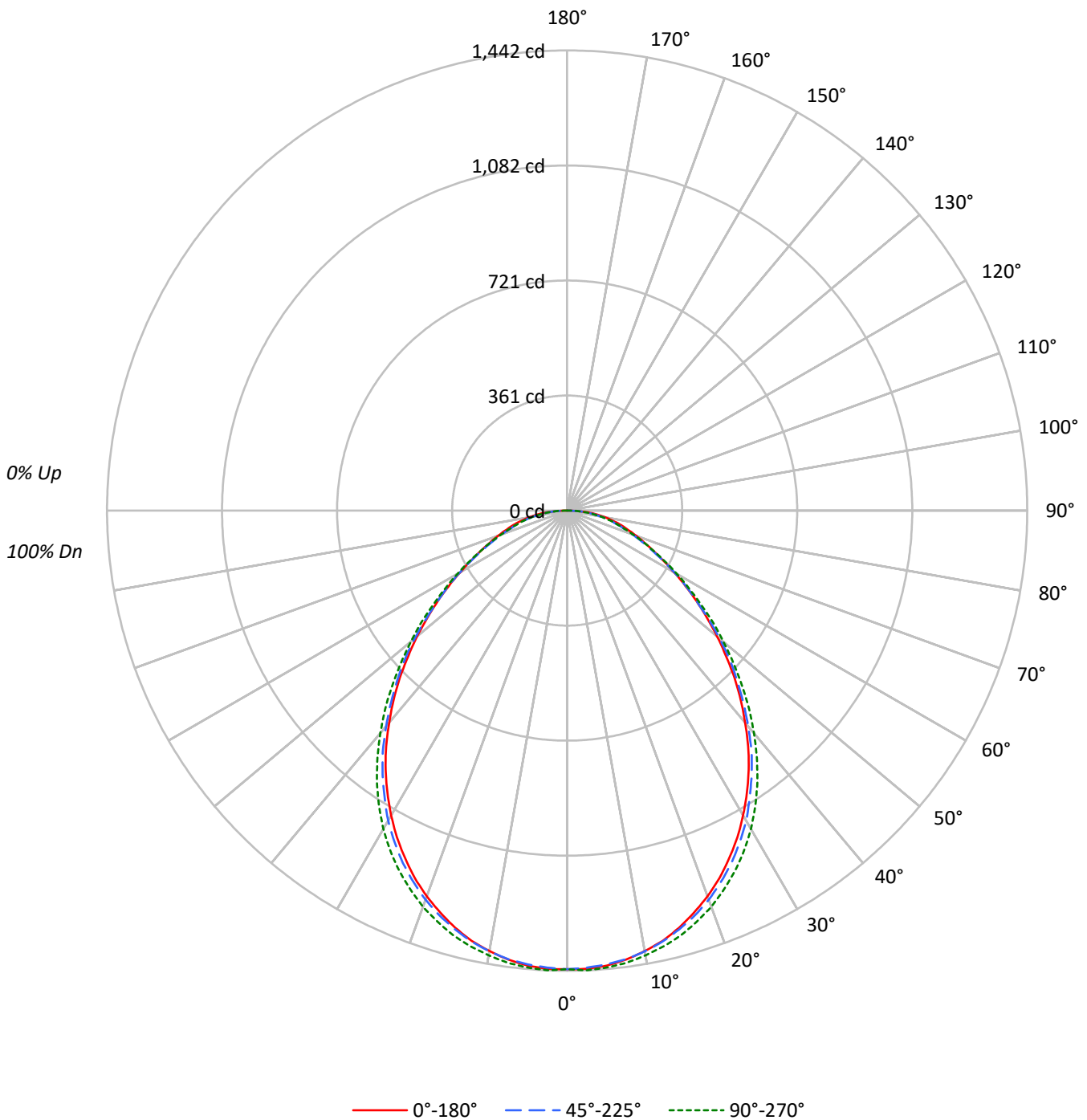
Input Watts (W): 25.017
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3868	3868	3868
5°	3866	3856	3883
10°	3830	3832	3867
15°	3771	3784	3839
20°	3683	3716	3783
25°	3568	3618	3697
30°	3427	3486	3579
35°	3259	3312	3414
40°	3047	3098	3199
45°	2821	2865	2949
50°	2570	2611	2678
55°	2320	2327	2395
60°	2081	2089	2138
65°	1896	1857	1901
70°	1805	1703	1733
75°	1816	1643	1651
80°	1883	1660	1649
85°	2066	1760	1664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	4.1
10°-20°	383.6	11.7
20°-30°	561.4	17.1
30°-40°	631.2	19.3
40°-50°	582.1	17.8
50°-60°	448.7	13.7
60°-70°	296.1	9.0
70°-80°	172.3	5.3
80°-90°	62.8	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°	1080.8	33.0
0°-40°	1712.0	52.3
0°-60°	2742.8	83.8
0°-90°	3274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1437	1437	1437	1437	1437	
5°	1431	1428	1427	1434	1437	136
15°	1354	1354	1358	1370	1378	381
25°	1202	1208	1218	1235	1245	553
35°	992	997	1008	1029	1039	619
45°	741	742	753	768	775	571
55°	494	494	496	504	510	444
65°	298	296	292	294	299	299
75°	175	167	158	155	159	184
85°	67	66	57	52	54	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1437.3	1437.3	1437.3	1437.3	1437.3
2.5°	1437.3	1434.3	1433.5	1438.8	1441.9
5°	1431.2	1428.2	1427.4	1434.3	1437.3
7.5°	1419.1	1416.8	1417.5	1425.1	1428.9
10°	1401.6	1400.8	1402.4	1410.7	1415.3
12.5°	1381.1	1380.3	1383.4	1392.5	1398.6
15°	1353.7	1353.7	1358.3	1370.4	1378.0
17.5°	1321.1	1323.3	1330.2	1342.3	1350.7
20°	1286.1	1288.4	1297.5	1311.2	1321.1
22.5°	1247.4	1250.4	1259.5	1276.2	1284.6
25°	1201.8	1207.9	1218.5	1235.2	1245.1
27.5°	1154.7	1161.5	1171.4	1191.9	1201.0
30°	1103.0	1107.6	1122.0	1141.0	1151.7
32.5°	1048.3	1052.9	1065.1	1087.9	1097.0
35°	992.1	996.7	1008.1	1028.6	1039.2
37.5°	931.4	935.2	948.8	964.8	976.2
40°	867.5	872.9	882.0	901.0	910.8
42.5°	805.3	807.5	817.4	836.4	844.0
45°	741.4	742.2	752.8	768.0	774.9
47.5°	675.3	676.9	689.8	698.9	705.7
50°	613.8	614.6	623.7	632.0	639.6
52.5°	552.3	552.3	556.8	566.0	575.8
55°	494.5	493.8	496.1	504.4	510.5
57.5°	439.9	439.1	442.1	447.4	452.0
60°	386.7	385.2	388.2	391.2	397.3
62.5°	339.6	341.1	337.3	341.9	346.4
65°	297.8	296.3	291.7	294.0	298.6
67.5°	262.1	259.8	252.2	253.7	259.0
70°	229.4	224.9	216.5	216.5	220.3
72.5°	199.8	195.2	184.6	185.4	186.9
75°	174.7	167.1	158.0	155.0	158.8
77.5°	147.4	141.3	132.9	130.7	132.2
80°	121.5	117.0	107.1	104.1	106.4
82.5°	96.5	92.7	81.3	79.0	79.8
85°	66.9	66.1	57.0	52.4	53.9
87.5°	35.7	36.5	29.6	26.6	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)