

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: P291994

Luminaire Tested: **22GR-LD5-32-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291994
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-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3217.0 lumens
Efficiency: N/A
Efficacy: 129.6 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

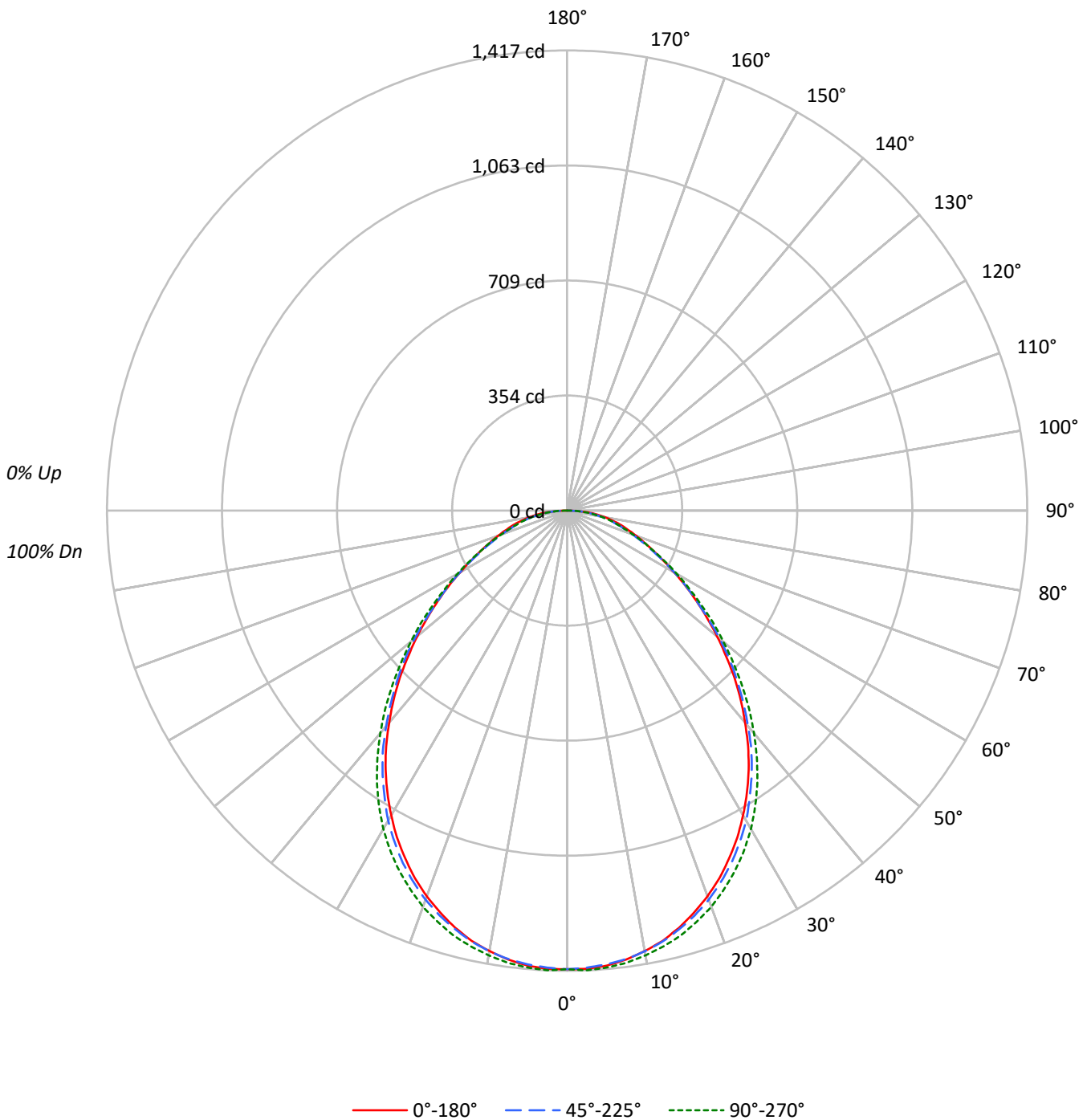
Input Watts (W): 24.831
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65					62				
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56					54				
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50					48				
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33					31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3800	3800	3800
5°	3799	3789	3815
10°	3763	3765	3800
15°	3706	3718	3772
20°	3619	3651	3717
25°	3506	3555	3632
30°	3368	3426	3516
35°	3203	3254	3354
40°	2994	3044	3144
45°	2772	2815	2898
50°	2525	2565	2631
55°	2280	2287	2353
60°	2045	2053	2101
65°	1863	1825	1868
70°	1773	1674	1703
75°	1785	1615	1622
80°	1850	1630	1619
85°	2029	1729	1636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	4.1
10°-20°	376.9	11.7
20°-30°	551.7	17.1
30°-40°	620.2	19.3
40°-50°	572.0	17.8
50°-60°	440.8	13.7
60°-70°	290.9	9.0
70°-80°	169.3	5.3
80°-90°	61.7	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°	1062.0	33.0
0°-40°	1682.2	52.3
0°-60°	2695.1	83.8
0°-90°	3217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3217.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1406	1403	1403	1409	1412	133
15°	1330	1330	1335	1347	1354	374
25°	1181	1187	1197	1214	1223	543
35°	975	979	990	1011	1021	608
45°	728	729	740	755	761	561
55°	486	485	487	496	502	436
65°	293	291	287	289	293	293
75°	172	164	155	152	156	181
85°	66	65	56	52	53	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1412.3	1412.3	1412.3	1412.3	1412.3
2.5°	1412.3	1409.3	1408.5	1413.8	1416.8
5°	1406.3	1403.3	1402.6	1409.3	1412.3
7.5°	1394.4	1392.1	1392.9	1400.3	1404.1
10°	1377.2	1376.4	1377.9	1386.2	1390.6
12.5°	1357.0	1356.3	1359.3	1368.2	1374.2
15°	1330.2	1330.2	1334.6	1346.6	1354.1
17.5°	1298.1	1300.3	1307.0	1319.0	1327.2
20°	1263.7	1266.0	1274.9	1288.4	1298.1
22.5°	1225.7	1228.7	1237.6	1254.0	1262.2
25°	1180.9	1186.8	1197.3	1213.7	1223.4
27.5°	1134.6	1141.3	1151.0	1171.2	1180.1
30°	1083.8	1088.3	1102.5	1121.2	1131.6
32.5°	1030.1	1034.6	1046.5	1068.9	1077.9
35°	974.9	979.3	990.5	1010.7	1021.1
37.5°	915.1	918.9	932.3	948.0	959.2
40°	852.4	857.7	866.6	885.3	895.0
42.5°	791.2	793.5	803.2	821.8	829.3
45°	728.5	729.3	739.7	754.7	761.4
47.5°	663.6	665.1	677.8	686.7	693.4
50°	603.1	603.9	612.8	621.0	628.5
52.5°	542.7	542.7	547.1	556.1	565.8
55°	485.9	485.2	487.4	495.6	501.6
57.5°	432.2	431.4	434.4	439.7	444.1
60°	379.9	378.4	381.4	384.4	390.4
62.5°	333.7	335.2	331.4	335.9	340.4
65°	292.6	291.1	286.6	288.9	293.4
67.5°	257.5	255.3	247.8	249.3	254.5
70°	225.4	220.9	212.7	212.7	216.5
72.5°	196.3	191.8	181.4	182.1	183.6
75°	171.7	164.2	155.3	152.3	156.0
77.5°	144.8	138.8	130.6	128.4	129.9
80°	119.4	115.0	105.2	102.3	104.5
82.5°	94.8	91.1	79.9	77.6	78.4
85°	65.7	64.9	56.0	51.5	53.0
87.5°	35.1	35.8	29.1	26.1	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)