

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: FAIL-SAFE

Report Number: P733981

Luminaire Tested: **24FCZ2-30-RDP-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30-RDP-B2750-W2D-CP375-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RDP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

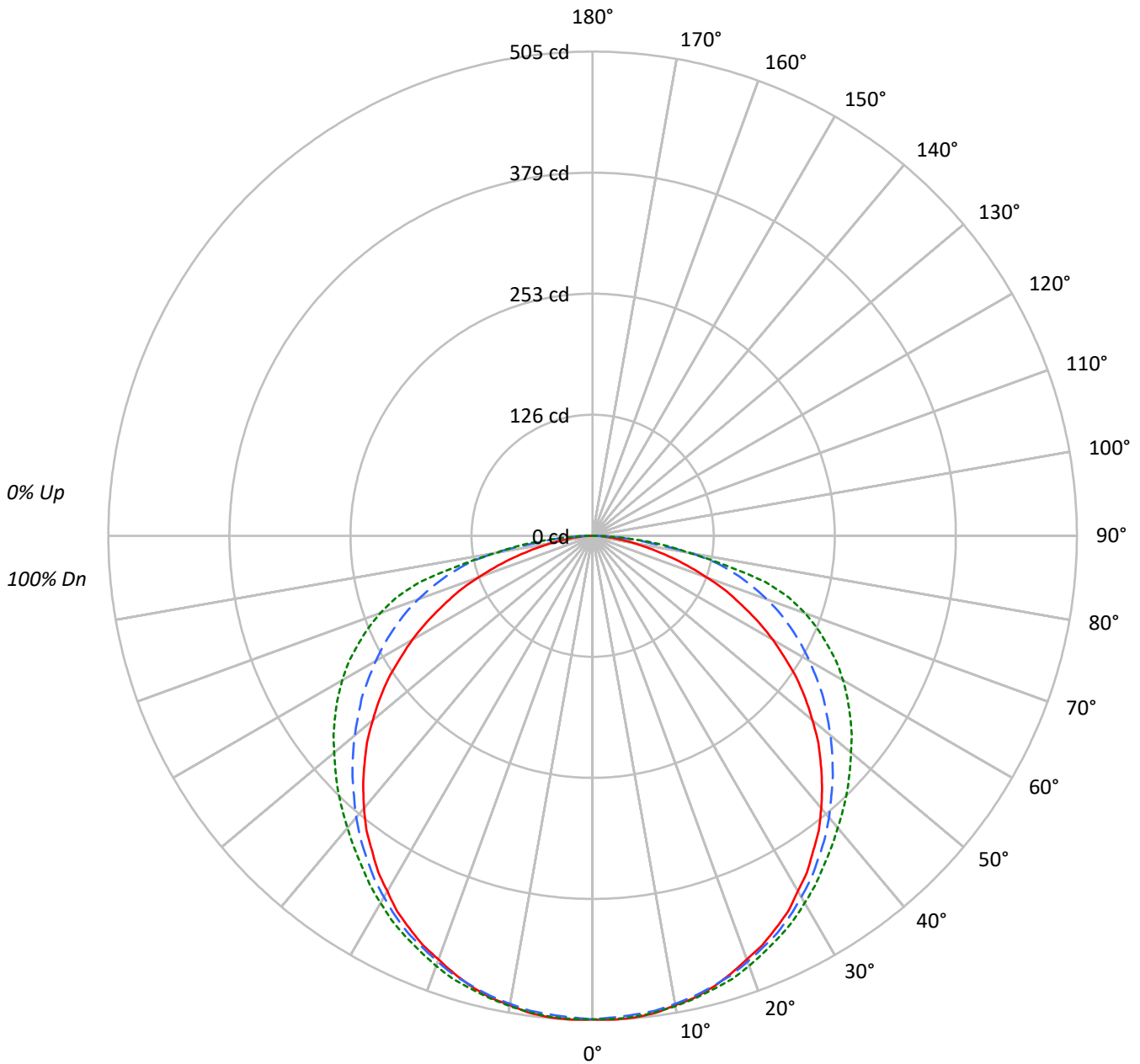
Lumens per Lamp: N/A
Luminaire Lumens: 1604.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P733981

CATALOG NUMBER: 24FCZ2-30-RDP-B2750-W2D-CP375-2700K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	712	712	712
5°	715	710	713
10°	713	710	714
15°	712	710	715
20°	706	710	717
25°	704	711	719
30°	698	709	721
35°	691	707	724
40°	683	706	733
45°	672	707	749
50°	657	711	772
55°	640	722	807
60°	613	736	851
65°	574	762	903
70°	522	798	972
75°	443	842	1015
80°	349	847	821
85°	257	644	721



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	3.0
10°-20°	137.7	8.6
20°-30°	210.6	13.1
30°-40°	257.4	16.1
40°-50°	274.4	17.1
50°-60°	262.3	16.4
60°-70°	222.2	13.9
70°-80°	149.3	9.3
80°-90°	42.1	2.6
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°	396.1	24.7
0°-40°	653.6	40.7
0°-60°	1190.3	74.2
0°-90°	1604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1604.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	504	504	504	504	504	
5°	504	504	501	504	504	48
15°	487	487	486	490	489	137
25°	452	454	457	461	461	208
35°	401	404	410	418	420	251
45°	336	342	354	369	376	260
55°	260	270	294	317	328	232
65°	172	189	228	258	270	171
75°	81	111	154	181	186	87
85°	16	33	40	43	44	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	504.4	504.4	504.4	504.4	504.4
2.5°	505.2	505.2	502.8	504.4	504.4
5°	504.4	503.6	501.3	503.6	503.6
7.5°	502.0	501.3	499.6	502.0	501.3
10°	497.2	497.2	495.7	498.1	498.1
12.5°	493.3	492.5	491.7	494.8	494.1
15°	487.0	487.0	486.1	490.1	489.3
17.5°	479.0	479.8	480.5	483.7	484.6
20°	470.2	471.8	472.6	477.4	477.4
22.5°	462.2	463.1	464.6	469.4	469.4
25°	451.9	453.5	456.6	460.7	461.4
27.5°	441.6	442.3	446.4	451.9	452.7
30°	428.1	430.5	435.2	441.6	442.3
32.5°	416.1	418.5	424.0	430.5	432.0
35°	401.0	404.2	410.5	418.5	420.1
37.5°	387.5	389.9	397.8	406.6	409.0
40°	370.8	375.5	383.4	393.8	397.8
42.5°	354.1	358.8	368.4	381.9	386.7
45°	336.5	342.1	354.1	369.2	375.5
47.5°	319.1	325.4	338.9	356.4	363.6
50°	299.1	307.1	323.8	343.7	351.7
52.5°	280.0	289.6	307.9	330.2	340.6
55°	260.2	269.7	293.6	316.7	327.8
57.5°	237.9	250.6	276.9	303.1	315.0
60°	217.2	229.1	260.9	289.6	301.5
62.5°	194.9	210.9	245.0	275.2	287.2
65°	171.8	189.4	228.3	258.5	270.5
67.5°	151.2	170.3	211.6	241.8	253.8
70°	126.5	150.3	193.3	223.5	235.5
72.5°	103.4	129.7	174.2	203.7	214.8
75°	81.2	110.6	154.4	180.6	186.2
77.5°	60.4	91.5	133.6	144.8	140.8
80°	43.0	73.2	104.2	98.6	101.0
82.5°	27.8	55.7	64.5	73.2	75.6
85°	15.9	32.6	39.8	43.0	44.5
87.5°	7.2	11.9	15.9	15.9	15.2
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)