

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: P734299

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CP187-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272053)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-35HE-B2750-W2D-CP187-4000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

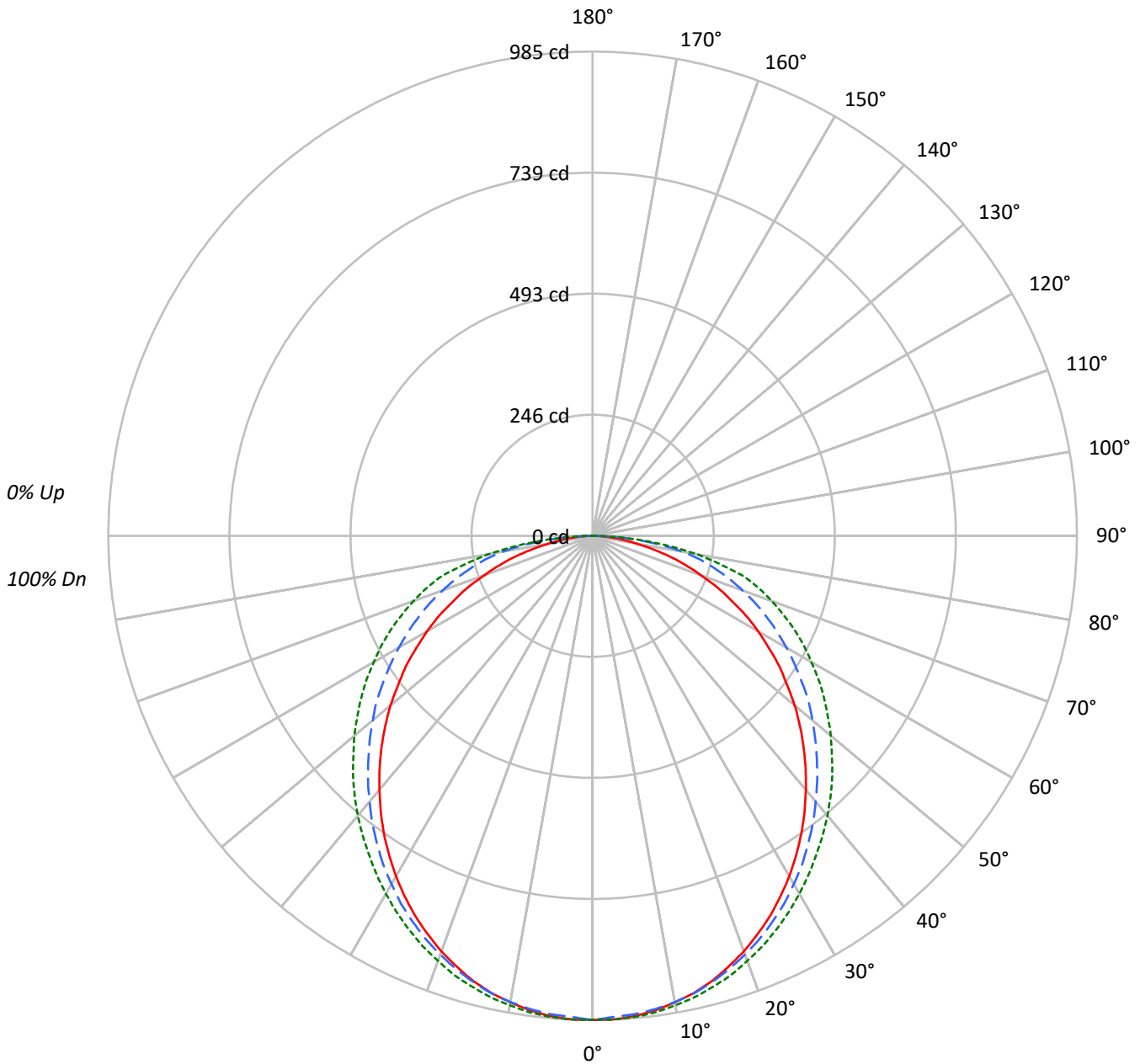
Lumens per Lamp: N/A
Luminaire Lumens: 2933.0 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 26
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

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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	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36																			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25																			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1390	1390	1390
5°	1390	1384	1392
10°	1382	1380	1390
15°	1370	1373	1387
20°	1351	1361	1382
25°	1329	1349	1376
30°	1303	1334	1370
35°	1275	1317	1366
40°	1243	1300	1369
45°	1211	1288	1375
50°	1178	1281	1389
55°	1142	1279	1414
60°	1097	1285	1451
65°	1039	1304	1513
70°	966	1337	1600
75°	881	1404	1735
80°	724	1511	1734
85°	554	1394	1490



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.1	3.2
10°-20°	265.9	9.1
20°-30°	400.1	13.6
30°-40°	479.5	16.3
40°-50°	499.7	17.0
50°-60°	464.9	15.9
60°-70°	382.9	13.1
70°-80°	260.8	8.9
80°-90°	86.1	2.9
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°	759.2	25.9
0°-40°	1238.6	42.2
0°-60°	2203.2	75.1
0°-90°	2933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	985	985	985	985	985	
5°	981	981	977	982	983	93
15°	938	939	940	949	950	264
25°	854	858	866	881	884	393
35°	740	749	764	785	793	463
45°	607	620	645	677	689	468
55°	464	480	520	561	575	414
65°	311	338	390	436	453	309
75°	162	198	257	303	318	170
85°	34	66	86	92	92	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	984.8	984.8	984.8	984.8	984.8
2.5°	984.8	984.8	979.8	984.8	984.8
5°	980.8	980.8	976.9	981.8	982.8
7.5°	973.9	975.0	971.1	976.9	977.9
10°	964.1	965.2	963.2	969.1	970.0
12.5°	952.5	953.4	953.4	960.2	961.3
15°	937.7	938.8	939.7	948.6	949.5
17.5°	919.2	922.1	924.0	934.9	936.8
20°	899.6	902.6	906.5	918.1	920.1
22.5°	877.1	881.0	887.8	900.6	903.5
25°	853.6	857.5	866.3	881.0	883.9
27.5°	827.2	833.1	843.8	859.5	863.4
30°	799.8	805.6	818.3	835.0	840.9
32.5°	770.4	778.2	792.8	811.5	817.4
35°	740.0	748.8	764.5	785.0	792.8
37.5°	707.8	717.6	736.1	758.6	768.4
40°	674.5	686.2	705.8	732.2	742.9
42.5°	641.1	652.0	676.4	704.8	716.5
45°	606.9	619.6	645.1	677.3	689.1
47.5°	571.6	584.4	614.7	649.0	659.8
50°	536.5	549.2	583.4	619.6	632.4
52.5°	498.2	514.9	554.0	590.3	603.0
55°	464.0	479.6	519.8	560.9	574.6
57.5°	424.9	443.4	487.5	530.6	545.2
60°	388.6	408.2	455.2	499.2	513.9
62.5°	351.5	372.9	422.8	467.9	484.5
65°	311.2	337.7	390.5	436.5	453.2
67.5°	275.0	302.5	358.3	405.3	419.9
70°	234.0	267.2	324.0	371.1	387.7
72.5°	198.7	232.0	291.6	337.7	354.3
75°	161.5	197.7	257.4	303.4	318.1
77.5°	124.4	164.5	224.2	259.4	264.3
80°	89.1	131.2	185.9	206.6	213.4
82.5°	62.6	100.9	137.1	150.8	154.7
85°	34.2	66.5	86.1	92.0	92.0
87.5°	14.6	28.4	34.2	35.3	36.2
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)