

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: P734300

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CP187-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734300
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-CP187-5000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

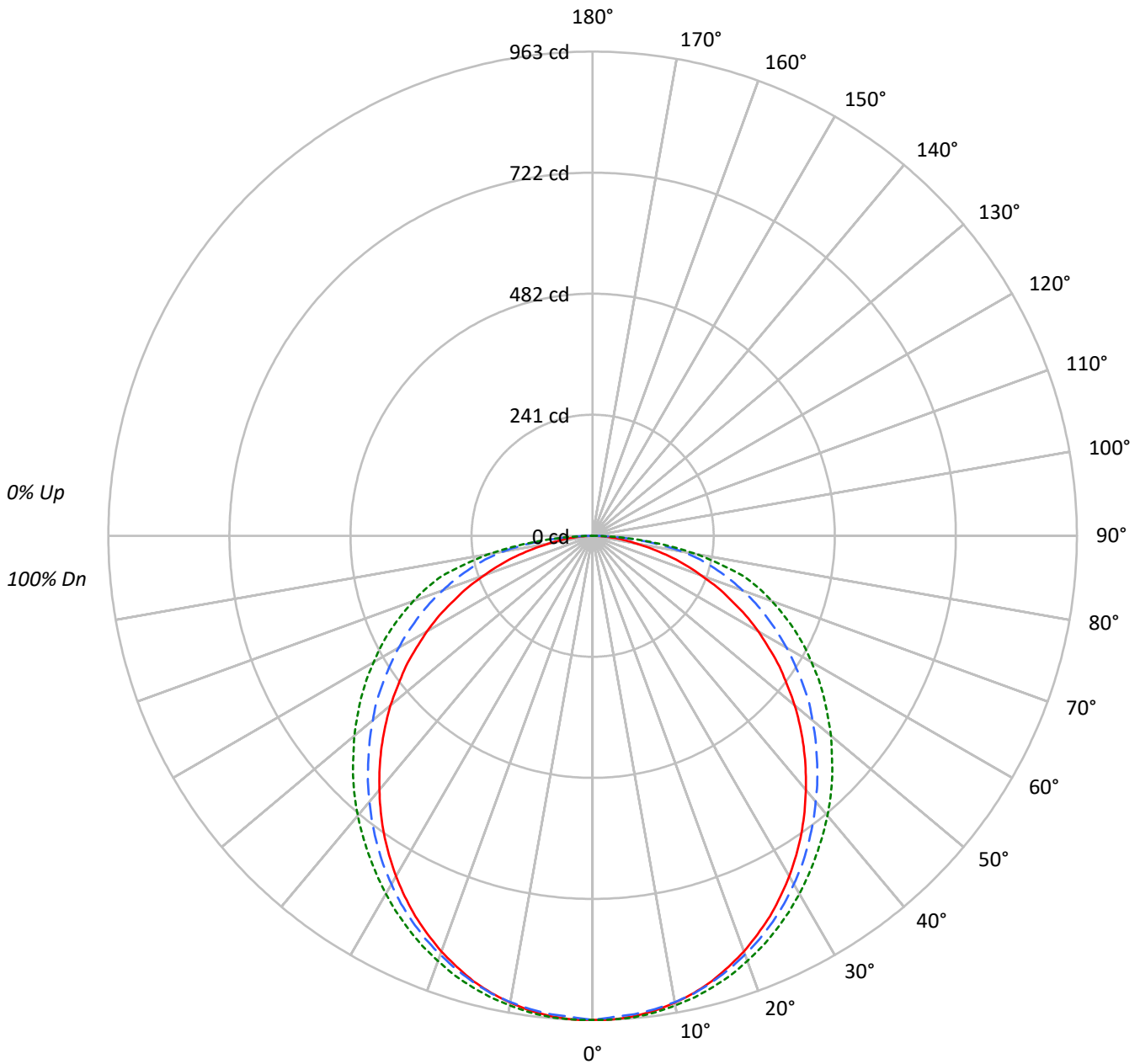
Lumens per Lamp: N/A
Luminaire Lumens: 2868.0 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P734300

CATALOG NUMBER: 24FCZ2-35HE-B2750-W2D-CP187-5000K

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°	1359	1359	1359
5°	1359	1353	1361
10°	1351	1350	1359
15°	1340	1343	1357
20°	1321	1331	1351
25°	1300	1319	1346
30°	1275	1304	1340
35°	1247	1288	1336
40°	1215	1271	1338
45°	1184	1259	1345
50°	1152	1253	1358
55°	1116	1251	1382
60°	1073	1256	1418
65°	1016	1275	1480
70°	944	1307	1564
75°	861	1373	1696
80°	708	1478	1696
85°	542	1363	1457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	3.2
10°-20°	260.0	9.1
20°-30°	391.2	13.6
30°-40°	468.9	16.3
40°-50°	488.6	17.0
50°-60°	454.6	15.9
60°-70°	374.4	13.1
70°-80°	255.0	8.9
80°-90°	84.2	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°	742.3	25.9
0°-40°	1211.2	42.2
0°-60°	2154.4	75.1
0°-90°	2868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2868.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	963	963	963	963	963	
5°	959	959	955	960	961	91
15°	917	918	919	928	928	258
25°	835	838	847	861	864	384
35°	724	732	748	768	775	452
45°	593	606	631	662	674	458
55°	454	469	508	548	562	404
65°	304	330	382	427	443	302
75°	158	193	252	297	311	167
85°	34	65	84	90	90	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	963.0	963.0	963.0	963.0	963.0
2.5°	963.0	963.0	958.1	963.0	963.0
5°	959.0	959.0	955.2	960.1	961.0
7.5°	952.4	953.4	949.6	955.2	956.3
10°	942.8	943.8	941.9	947.6	948.5
12.5°	931.4	932.3	932.3	939.0	940.0
15°	916.9	918.0	918.9	927.5	928.5
17.5°	898.8	901.7	903.6	914.2	916.0
20°	879.7	882.6	886.4	897.8	899.7
22.5°	857.6	861.4	868.1	880.6	883.5
25°	834.7	838.5	847.1	861.4	864.3
27.5°	808.8	814.6	825.1	840.4	844.3
30°	782.1	787.7	800.2	816.4	822.2
32.5°	753.3	761.0	775.3	793.5	799.3
35°	723.6	732.2	747.6	767.6	775.3
37.5°	692.1	701.7	719.8	741.8	751.4
40°	659.6	671.0	690.1	716.0	726.5
42.5°	626.9	637.5	661.4	689.2	700.6
45°	593.4	605.9	630.8	662.3	673.9
47.5°	559.0	571.4	601.1	634.6	645.1
50°	524.6	537.0	570.5	605.9	618.4
52.5°	487.2	503.5	541.8	577.2	589.6
55°	453.7	469.0	508.3	548.5	561.8
57.5°	415.4	433.5	476.7	518.8	533.1
60°	380.0	399.2	445.1	488.1	502.5
62.5°	343.7	364.7	413.5	457.5	473.8
65°	304.3	330.2	381.9	426.9	443.1
67.5°	268.9	295.8	350.4	396.3	410.6
70°	228.8	261.3	316.8	362.8	379.1
72.5°	194.3	226.8	285.2	330.2	346.4
75°	157.9	193.4	251.7	296.7	311.0
77.5°	121.6	160.8	219.2	253.7	258.4
80°	87.1	128.3	181.8	202.0	208.7
82.5°	61.3	98.6	134.1	147.4	151.2
85°	33.5	65.1	84.2	90.0	90.0
87.5°	14.3	27.8	33.5	34.5	35.4
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)