

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P973914

Luminaire Tested: FLR2-22-25HE-L840-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-25HE-L840-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

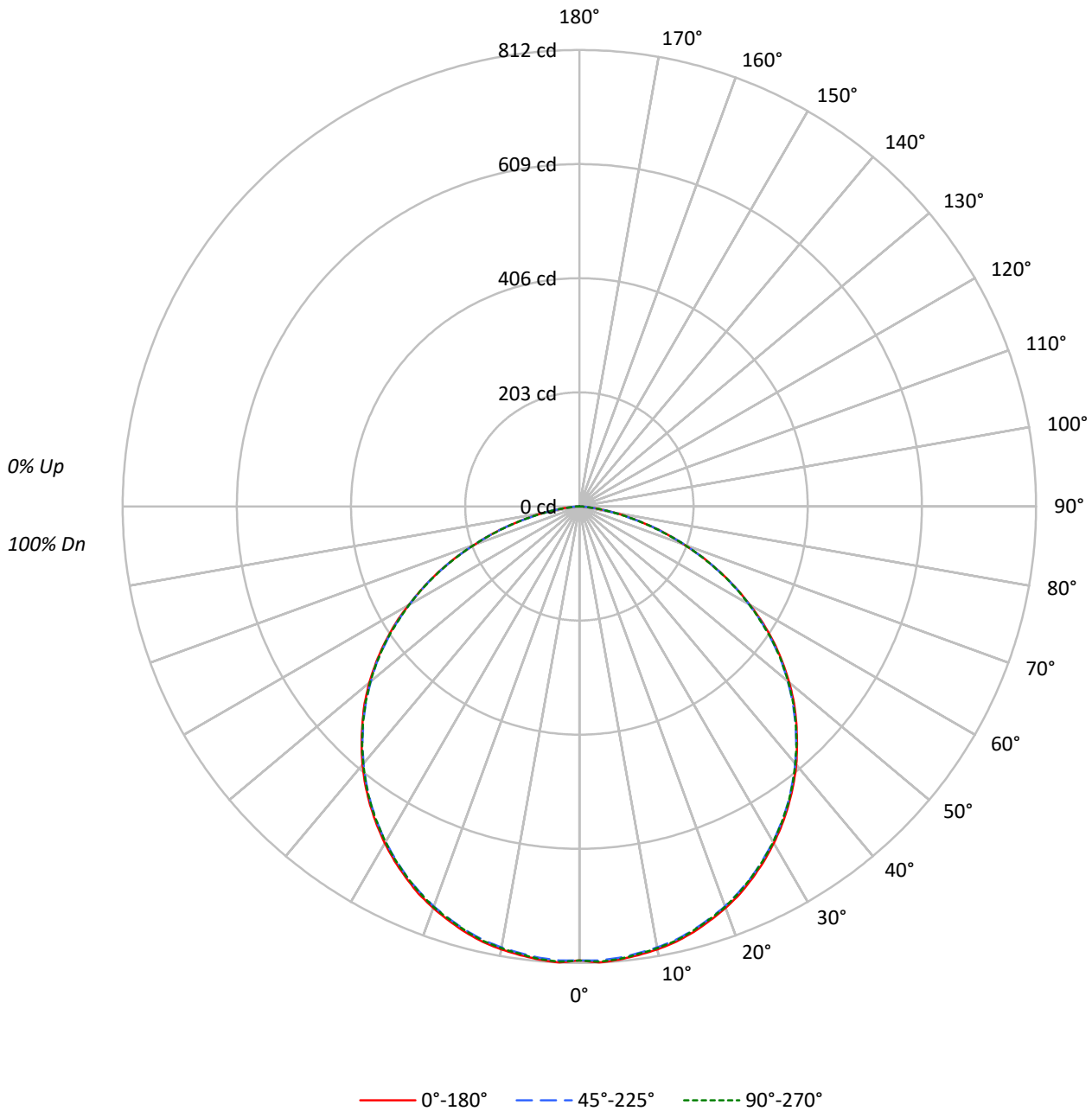
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2258.1 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 19.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P973914
CATALOG NUMBER: FLR2-22-25HE-L840-CP375

Luminous Intensity Polar Plot





TEST NUMBER: P973914
 CATALOG NUMBER: FLR2-22-25HE-L840-CP375

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2173	2173	2173
5°	2186	2177	2184
10°	2186	2176	2181
15°	2184	2174	2177
20°	2177	2168	2171
25°	2165	2156	2158
30°	2149	2140	2142
35°	2130	2122	2123
40°	2108	2097	2099
45°	2076	2067	2071
50°	2040	2025	2030
55°	1982	1965	1972
60°	1884	1876	1876
65°	1759	1756	1750
70°	1558	1566	1562
75°	1312	1302	1291
80°	942	927	919
85°	494	494	479

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2076 cd/sqm



TEST NUMBER: P973914
 CATALOG NUMBER: FLR2-22-25HE-L840-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	3.4
10°-20°	219.9	9.7
20°-30°	334.1	14.8
30°-40°	403.9	17.9
40°-50°	419.2	18.6
50°-60°	374.8	16.6
60°-70°	272.5	12.1
70°-80°	134.0	5.9
80°-90°	23.2	1.0
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°	630.5	27.9
0°-40°	1034.4	45.8
0°-60°	1828.3	81.0
0°-90°	2258.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2258.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	809	800	806	803	808	77
15°	784	775	780	778	782	221
25°	729	721	726	725	727	336
35°	648	644	646	646	646	406
45°	546	543	543	544	544	421
55°	422	420	419	420	420	377
65°	276	277	276	276	275	272
75°	126	127	125	126	124	134
85°	16	16	16	16	16	23
90°	0	0	0	0	0	



TEST NUMBER: P973914
 CATALOG NUMBER: FLR2-22-25HE-L840-CP375

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	807.5	807.5	807.5	807.5	807.5
2.5°	811.9	802.5	808.4	805.0	810.4
5°	809.4	800.0	806.0	803.0	808.4
7.5°	805.0	795.5	801.5	798.5	803.0
10°	800.0	790.0	796.5	793.5	798.0
12.5°	793.5	784.0	790.0	787.5	791.5
15°	784.0	775.0	780.5	778.5	781.5
17.5°	772.5	763.6	769.0	767.6	770.0
20°	760.1	751.6	757.1	755.6	758.1
22.5°	746.1	737.1	742.1	741.1	743.1
25°	729.1	721.2	726.2	724.7	726.7
27.5°	711.2	703.7	707.7	707.7	708.7
30°	691.7	684.8	688.8	688.8	689.3
32.5°	670.8	665.3	667.8	668.3	668.3
35°	648.4	643.9	645.9	646.4	646.4
37.5°	624.9	620.4	621.9	622.9	622.9
40°	600.0	596.0	597.0	598.0	597.5
42.5°	573.0	570.1	570.6	571.5	571.5
45°	545.6	543.1	543.1	544.1	544.1
47.5°	517.7	515.2	514.2	515.2	515.2
50°	487.3	484.8	483.8	484.8	484.8
52.5°	455.3	452.9	452.9	452.9	453.3
55°	422.4	419.9	418.9	419.9	420.4
57.5°	387.5	386.5	385.0	385.5	384.0
60°	350.1	350.1	348.6	349.6	348.6
62.5°	313.7	314.7	313.2	313.2	312.2
65°	276.3	277.3	275.8	275.8	274.8
67.5°	237.9	239.4	237.4	237.4	236.4
70°	198.0	201.0	199.0	199.5	198.5
72.5°	162.1	163.6	161.6	161.6	160.6
75°	126.2	127.2	125.2	125.7	124.2
77.5°	90.8	92.3	90.3	90.8	90.3
80°	60.8	61.3	59.8	60.3	59.3
82.5°	35.4	35.9	35.4	34.9	34.4
85°	16.0	16.5	16.0	16.0	15.5
87.5°	4.0	4.0	4.0	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)