

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: P974938

Luminaire Tested: FLR2-24-45HE-L940-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-45HE-L940-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

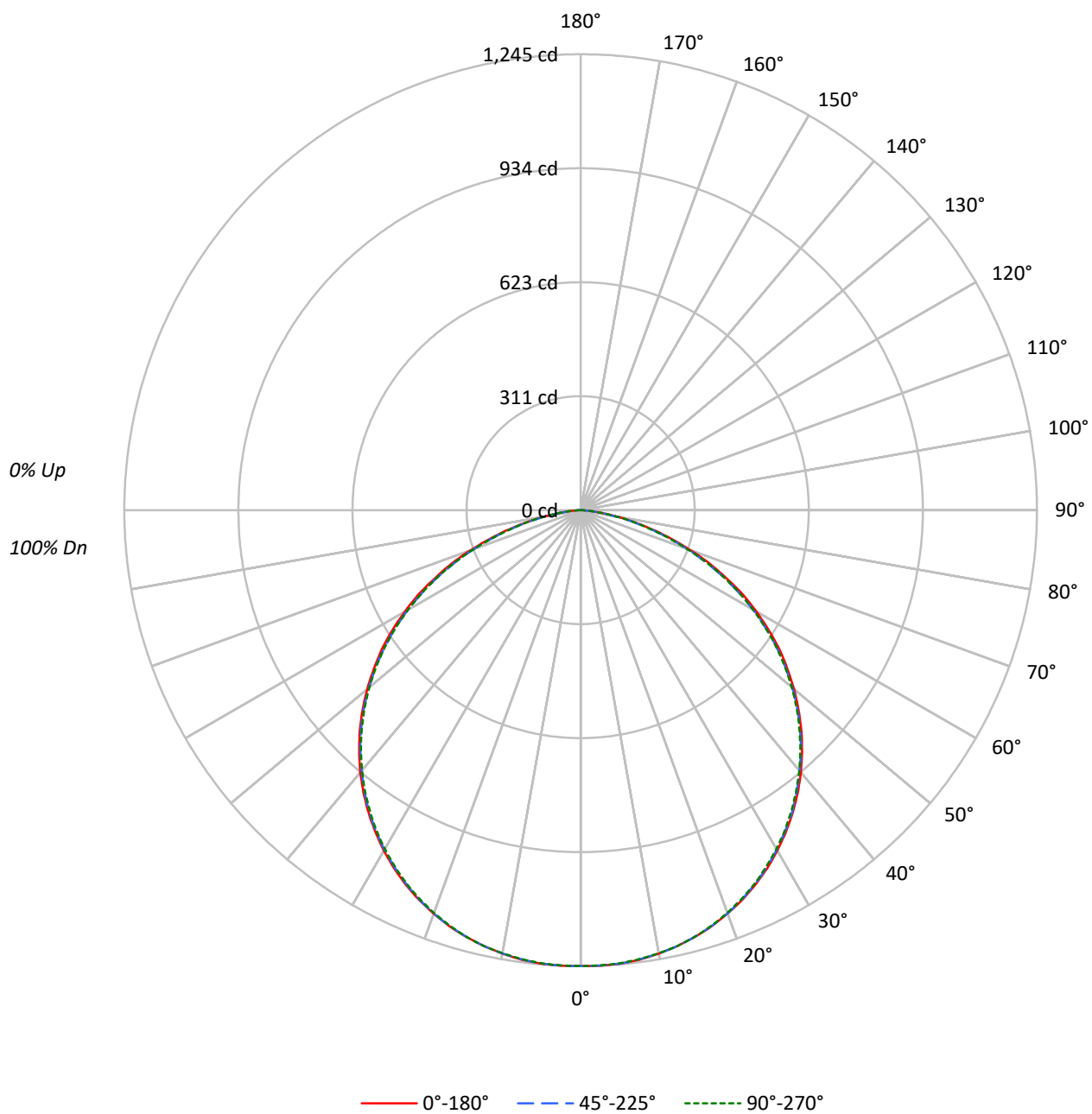
Lumens per Lamp: N/A
Luminaire Lumens: 3519.1 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.7
Input Voltage (V):
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: P974938

CATALOG NUMBER: FLR2-24-45HE-L940-CP375

Luminous Intensity Polar Plot



TEST NUMBER: P974938

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71		71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1675	1675	1675
5°	1679	1679	1677
10°	1680	1679	1679
15°	1680	1680	1680
20°	1679	1678	1675
25°	1675	1672	1669
30°	1668	1663	1660
35°	1657	1653	1647
40°	1642	1632	1630
45°	1621	1612	1607
50°	1591	1578	1574
55°	1553	1531	1529
60°	1488	1462	1462
65°	1393	1360	1364
70°	1253	1214	1211
75°	1052	1010	1005
80°	769	731	762
85°	434	400	408

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1621 cd/sqm

TEST NUMBER: P974938

CATALOG NUMBER: FLR2-24-45HE-L940-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	3.4
10°-20°	340.5	9.7
20°-30°	519.1	14.8
30°-40°	629.0	17.9
40°-50°	653.3	18.6
50°-60°	584.4	16.6
60°-70°	426.0	12.1
70°-80°	210.9	6.0
80°-90°	37.7	1.1
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°	977.8	27.8
0°-40°	1606.8	45.7
0°-60°	2844.5	80.8
0°-90°	3519.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3519.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1245	1245	1245	1245	1245	
5°	1243	1243	1243	1243	1242	118
15°	1206	1206	1206	1207	1206	341
25°	1128	1127	1126	1126	1124	520
35°	1009	1008	1006	1004	1002	631
45°	852	850	847	845	844	657
55°	662	657	653	653	652	590
65°	437	434	427	429	428	434
75°	202	199	194	198	193	216
85°	28	26	26	26	26	39
90°	0	0	0	0	0	

TEST NUMBER: P974938

CATALOG NUMBER: FLR2-24-45HE-L940-CP375

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1245.1	1245.1	1245.1	1245.1	1245.1
2.5°	1245.1	1244.7	1244.7	1245.1	1244.2
5°	1242.9	1243.3	1242.9	1242.9	1242.0
7.5°	1238.0	1237.5	1237.1	1237.5	1236.2
10°	1229.5	1229.5	1229.1	1229.5	1228.6
12.5°	1219.2	1219.2	1219.2	1219.7	1219.2
15°	1206.3	1205.8	1205.8	1206.7	1205.8
17.5°	1191.1	1190.6	1190.6	1190.2	1189.3
20°	1172.3	1172.3	1171.9	1171.4	1170.1
22.5°	1152.2	1151.8	1150.4	1150.4	1148.6
25°	1128.5	1127.2	1126.3	1125.8	1124.5
27.5°	1102.6	1100.8	1099.5	1098.6	1097.3
30°	1073.6	1071.8	1070.5	1069.1	1068.2
32.5°	1042.3	1041.4	1039.2	1038.7	1036.9
35°	1008.8	1007.5	1006.1	1004.3	1002.5
37.5°	973.1	971.7	968.6	967.7	966.4
40°	935.1	933.3	929.3	929.3	927.9
42.5°	894.4	892.6	890.0	888.2	887.3
45°	852.0	850.2	847.1	845.3	844.4
47.5°	806.9	805.5	801.9	800.6	799.3
50°	759.9	758.2	754.1	753.2	751.9
52.5°	710.8	709.9	704.5	704.1	702.8
55°	662.1	657.2	652.7	652.7	651.8
57.5°	608.5	604.9	599.1	599.1	598.2
60°	553.1	550.0	543.3	544.2	543.3
62.5°	499.0	492.3	486.1	488.8	486.5
65°	437.4	433.8	427.1	428.9	428.4
67.5°	381.1	374.4	368.1	371.7	369.9
70°	318.5	315.0	308.7	312.3	307.8
72.5°	259.6	256.4	250.2	254.2	249.7
75°	202.4	199.3	194.3	197.9	193.4
77.5°	148.3	146.1	141.6	145.2	146.1
80°	99.2	96.5	94.3	97.4	98.3
82.5°	58.1	56.3	55.4	55.8	58.1
85°	28.1	25.9	25.9	26.4	26.4
87.5°	7.6	6.7	7.6	8.0	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)