

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: P973073

Luminaire Tested: FLR2-14-80HE-L830-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-14-80HE-L830-CP375
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 3000CCT & 80CRI with Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

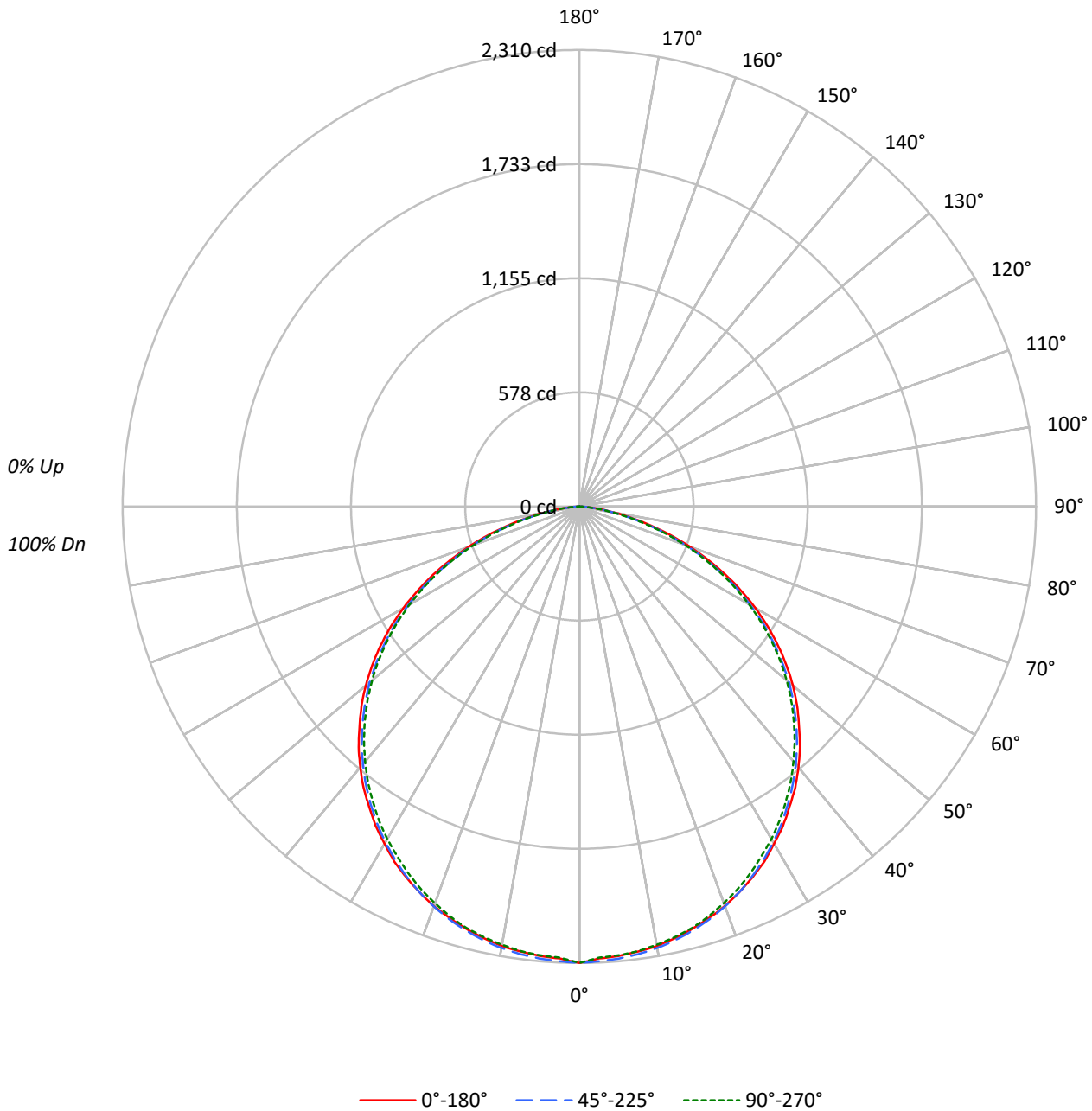
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6465.3 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 61.9
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

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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									70									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	50	30	10	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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85															
2	99	91	85	79	97	90	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	58	53	51					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44					44															
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39					39															
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	40	34	29	27					27															
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	25					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6216	6216	6216
5°	6168	6204	6160
10°	6174	6200	6155
15°	6164	6188	6150
20°	6163	6169	6119
25°	6149	6138	6081
30°	6123	6096	6037
35°	6090	6043	5983
40°	6056	5982	5921
45°	5982	5898	5836
50°	5904	5796	5728
55°	5755	5621	5567
60°	5532	5377	5331
65°	5181	5029	4974
70°	4672	4483	4446
75°	3917	3718	3679
80°	2845	2651	2579
85°	1507	1328	1210

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5982 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.8	3.4
10°-20°	628.3	9.7
20°-30°	954.6	14.8
30°-40°	1154.7	17.9
40°-50°	1200.1	18.6
50°-60°	1074.5	16.6
60°-70°	783.7	12.1
70°-80°	385.9	6.0
80°-90°	64.5	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°	1801.8	27.9
0°-40°	2956.5	45.7
0°-60°	5231.2	80.9
0°-90°	6465.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6465.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2310	2310	2310	2310	2310	
5°	2283	2308	2297	2319	2280	217
15°	2212	2232	2221	2240	2208	625
25°	2071	2082	2067	2077	2048	955
35°	1854	1858	1840	1847	1821	1161
45°	1572	1570	1550	1553	1534	1214
55°	1227	1216	1198	1195	1186	1095
65°	814	804	790	784	781	804
75°	377	370	358	354	354	402
85°	49	47	43	38	39	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2310.0	2310.0	2310.0	2310.0	2310.0
2.5°	2289.9	2315.7	2303.3	2326.2	2285.1
5°	2283.2	2308.1	2296.6	2318.6	2280.4
7.5°	2271.7	2297.6	2285.1	2306.2	2269.8
10°	2259.3	2282.3	2268.9	2289.9	2252.6
12.5°	2237.3	2260.3	2247.8	2267.0	2232.5
15°	2212.5	2232.5	2221.1	2240.2	2207.7
17.5°	2183.8	2202.9	2190.5	2207.7	2175.2
20°	2152.2	2167.5	2154.1	2168.5	2136.9
22.5°	2113.0	2127.4	2113.0	2122.6	2094.9
25°	2071.0	2081.5	2067.1	2076.7	2048.0
27.5°	2026.0	2031.8	2017.4	2025.1	1995.4
30°	1970.6	1977.3	1962.0	1971.5	1942.8
32.5°	1917.0	1920.8	1903.6	1911.3	1885.5
35°	1853.9	1857.7	1839.6	1847.2	1821.4
37.5°	1793.7	1792.7	1773.6	1778.4	1756.4
40°	1723.9	1722.9	1702.9	1706.7	1685.6
42.5°	1652.2	1648.4	1629.2	1631.1	1612.0
45°	1571.9	1570.0	1549.9	1552.7	1533.6
47.5°	1494.4	1488.7	1468.6	1469.6	1453.3
50°	1410.3	1401.7	1384.5	1382.6	1368.2
52.5°	1320.4	1310.8	1291.7	1289.8	1279.3
55°	1226.7	1216.2	1198.0	1195.2	1186.5
57.5°	1130.1	1116.8	1102.4	1096.7	1090.0
60°	1027.8	1015.4	999.1	993.4	990.5
62.5°	921.7	909.3	896.8	891.1	887.3
65°	813.7	804.1	789.8	784.0	781.2
67.5°	703.7	695.1	681.7	675.0	674.1
70°	593.8	585.1	569.8	566.0	565.1
72.5°	483.8	476.1	461.8	458.0	458.0
75°	376.7	370.0	357.6	353.8	353.8
77.5°	275.4	269.6	260.1	255.3	255.3
80°	183.6	179.8	171.1	167.3	166.4
82.5°	106.1	104.2	96.6	92.7	94.7
85°	48.8	46.8	43.0	38.2	39.2
87.5°	12.4	11.5	8.6	6.7	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)