

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: P973128

Luminaire Tested: FLR2-14-80HE-L835-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973128
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-L835-CP125
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 3500CCT & 80CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

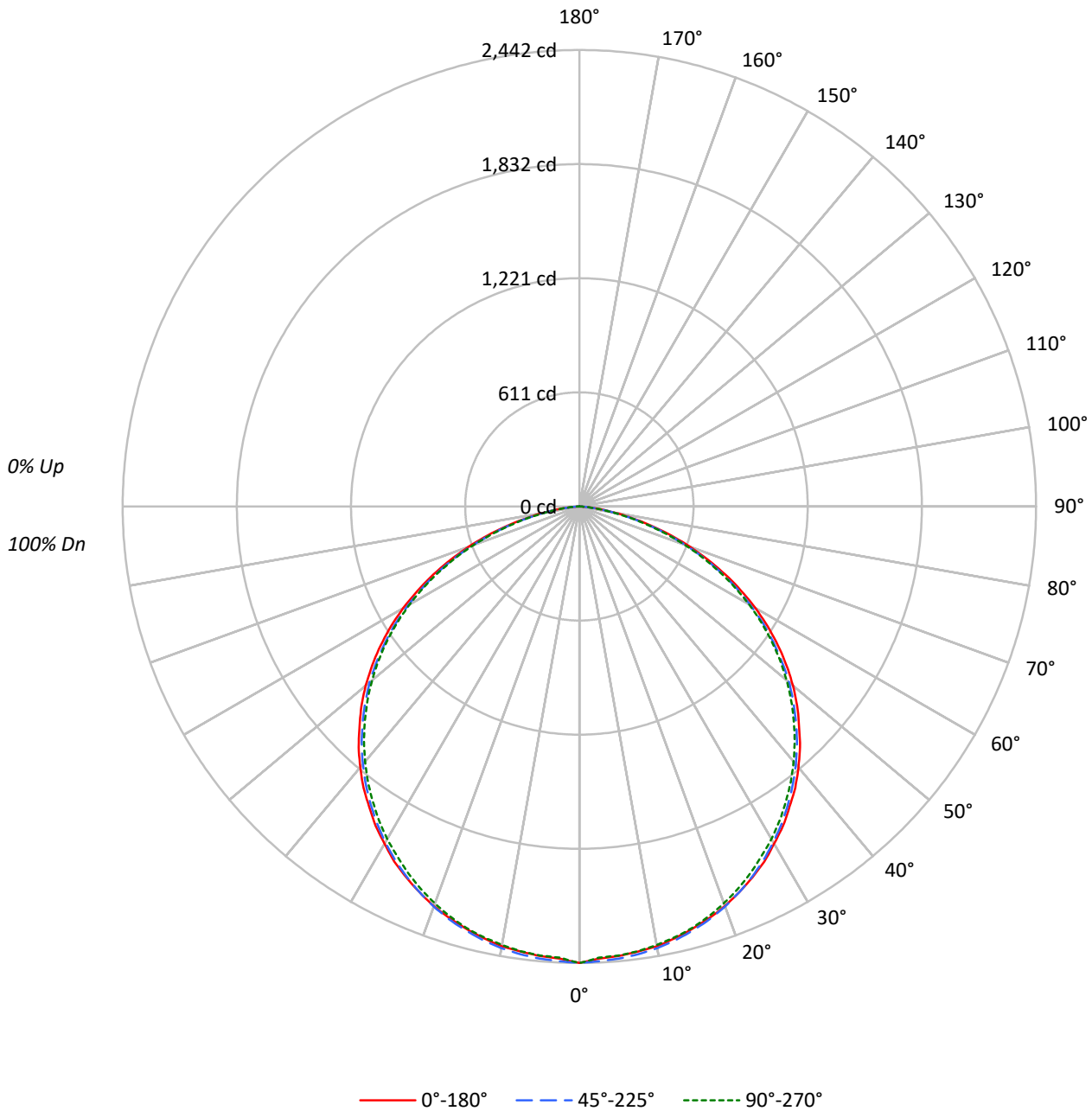
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6835.8 lumens
Efficiency: N/A
Efficacy: 110.4 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									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			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°	6572	6572	6572
5°	6521	6559	6513
10°	6527	6555	6508
15°	6517	6542	6503
20°	6516	6522	6470
25°	6501	6489	6429
30°	6474	6446	6383
35°	6439	6389	6326
40°	6403	6324	6261
45°	6325	6236	6171
50°	6242	6128	6056
55°	6085	5943	5886
60°	5849	5685	5637
65°	5478	5317	5259
70°	4939	4740	4700
75°	4141	3931	3889
80°	3008	2805	2726
85°	1593	1405	1278

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6325 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.3	3.4
10°-20°	664.3	9.7
20°-30°	1009.3	14.8
30°-40°	1220.9	17.9
40°-50°	1268.9	18.6
50°-60°	1136.1	16.6
60°-70°	828.6	12.1
70°-80°	408.0	6.0
80°-90°	68.2	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°	1905.0	27.9
0°-40°	3125.9	45.7
0°-60°	5530.9	80.9
0°-90°	6835.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6835.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2442	2442	2442	2442	2442	
5°	2414	2440	2428	2451	2411	230
15°	2339	2360	2348	2368	2334	661
25°	2190	2201	2186	2196	2165	1009
35°	1960	1964	1945	1953	1926	1228
45°	1662	1660	1639	1642	1622	1283
55°	1297	1286	1267	1264	1254	1158
65°	860	850	835	829	826	850
75°	398	391	378	374	374	425
85°	52	50	46	40	41	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2442.3	2442.3	2442.3	2442.3	2442.3
2.5°	2421.1	2448.4	2435.3	2459.5	2416.1
5°	2414.0	2440.3	2428.2	2451.4	2411.0
7.5°	2401.9	2429.2	2416.1	2438.3	2399.9
10°	2388.8	2413.0	2398.9	2421.1	2381.7
12.5°	2365.5	2389.8	2376.6	2396.8	2360.5
15°	2339.2	2360.5	2348.3	2368.5	2334.2
17.5°	2308.9	2329.1	2316.0	2334.2	2299.8
20°	2275.5	2291.7	2277.6	2292.7	2259.4
22.5°	2234.1	2249.3	2234.1	2244.2	2214.9
25°	2189.6	2200.7	2185.6	2195.7	2165.3
27.5°	2142.1	2148.2	2133.0	2141.1	2109.7
30°	2083.5	2090.5	2074.4	2084.5	2054.2
32.5°	2026.9	2030.9	2012.7	2020.8	1993.5
35°	1960.1	1964.2	1945.0	1953.1	1925.8
37.5°	1896.4	1895.4	1875.2	1880.3	1857.0
40°	1822.7	1821.6	1800.4	1804.5	1782.2
42.5°	1746.8	1742.8	1722.6	1724.6	1704.4
45°	1661.9	1659.9	1638.7	1641.7	1621.5
47.5°	1580.0	1574.0	1552.7	1553.8	1536.6
50°	1491.1	1482.0	1463.8	1461.8	1446.6
52.5°	1396.1	1385.9	1365.7	1363.7	1352.6
55°	1297.0	1285.9	1266.7	1263.6	1254.5
57.5°	1194.9	1180.7	1165.6	1159.5	1152.4
60°	1086.7	1073.6	1056.4	1050.3	1047.3
62.5°	974.5	961.4	948.2	942.2	938.1
65°	860.3	850.2	835.0	828.9	825.9
67.5°	744.0	734.9	720.8	713.7	712.7
70°	627.8	618.7	602.5	598.5	597.4
72.5°	511.5	503.4	488.3	484.2	484.2
75°	398.3	391.2	378.1	374.0	374.0
77.5°	291.1	285.1	275.0	269.9	269.9
80°	194.1	190.0	181.0	176.9	175.9
82.5°	112.2	110.2	102.1	98.1	100.1
85°	51.6	49.5	45.5	40.4	41.4
87.5°	13.1	12.1	9.1	7.1	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)