

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: NEO-RAY

Report Number: P1027570

Luminaire Tested: S125DIP-B1270D1090UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027570
REPORT IS A COMBINATION OF REPORTS P1001578 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1090UB50-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

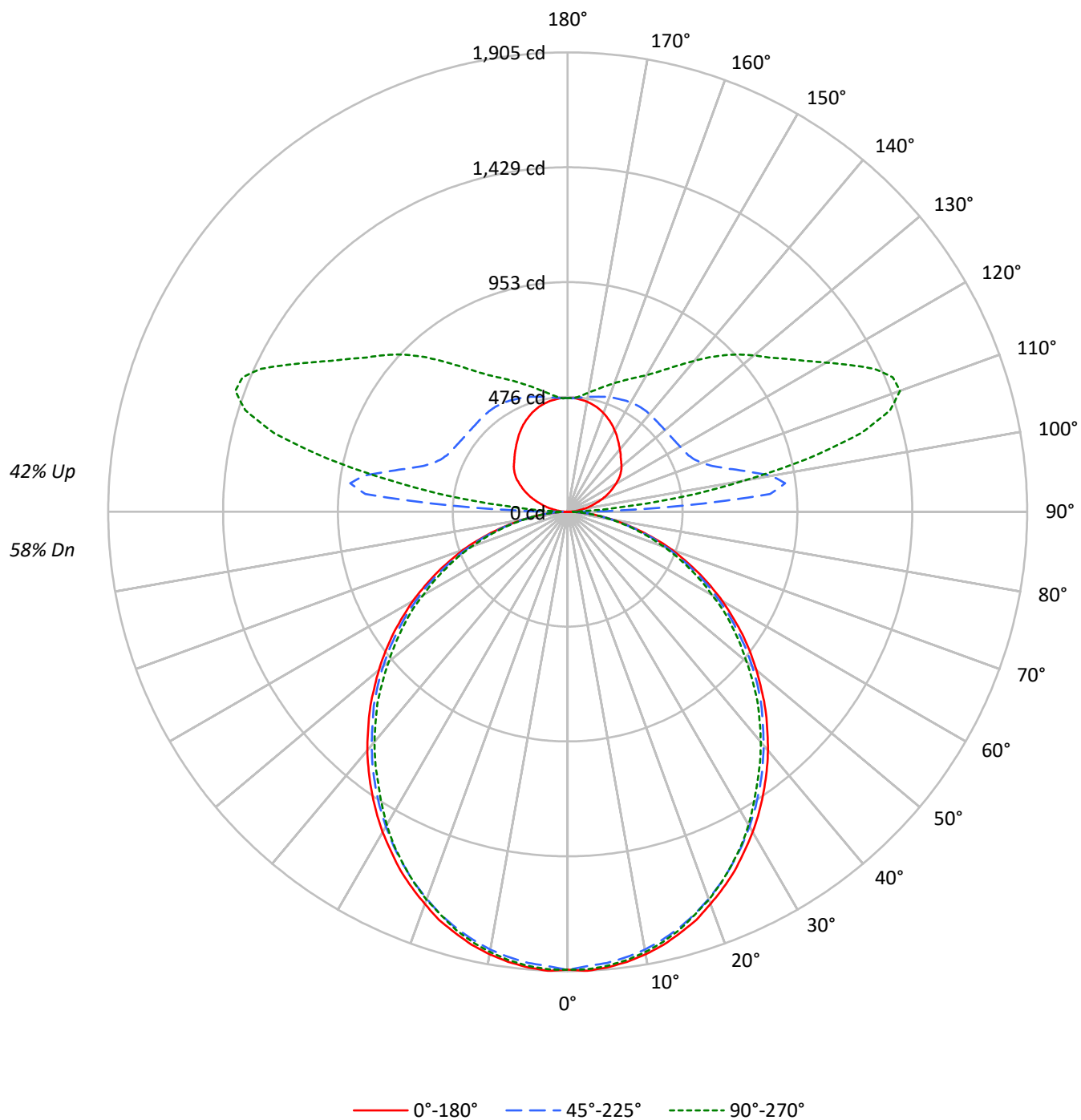
Lumens per Lamp: N/A
Luminaire Lumens: 8492.2 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
Input Voltage (V):
Input Current (Ain): 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: 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				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64
1	100	95	91	88	93	89	85	82	77	74	72	66	64	63	56	55	54
2	91	83	77	72	84	78	72	67	67	63	60	58	55	52	49	47	45
3	83	73	66	60	77	68	62	56	60	54	50	51	47	44	44	41	38
4	76	65	57	50	70	61	53	48	53	47	43	46	41	38	39	36	33
5	69	58	49	43	64	54	47	41	47	41	37	41	36	33	35	32	29
6	64	52	43	38	59	49	41	36	43	37	32	37	32	29	32	28	25
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18
10	48	36	28	23	45	34	27	22	30	24	20	26	22	19	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12168	12168	12168
5°	12168	11886	11908
10°	12068	11613	11577
15°	11910	11287	11186
20°	11695	10909	10738
25°	11465	10497	10258
30°	11187	10068	9753
35°	10891	9618	9186
40°	10585	9142	8683
45°	10254	8678	8148
50°	9889	8152	7525
55°	9529	7571	6951
60°	9098	6960	6284
65°	8583	6253	5594
70°	8060	5438	4798
75°	7178	4478	3880
80°	6117	3345	2854
85°	4723	1977	1572

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10254 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	2.1
10°-20°	506.2	6.0
20°-30°	747.3	8.8
30°-40°	871.9	10.3
40°-50°	875.7	10.3
50°-60°	768.7	9.1
60°-70°	572.6	6.7
70°-80°	327.0	3.9
80°-90°	96.3	1.1
90°-100°	354.9	4.2
100°-110°	737.2	8.7
110°-120°	688.6	8.1
120°-130°	557.2	6.6
130°-140°	447.7	5.3
140°-150°	337.9	4.0
150°-160°	237.9	2.8
160°-170°	140.2	1.7
170°-180°	45.6	0.5
0°-30°	1432.7	16.9
0°-40°	2304.6	27.1
0°-60°	3949.0	46.5
0°-90°	4944.9	58.2
90°-120°	1780.8	21.0
90°-150°	3123.6	36.8
90°-180°	3547.0	41.8
0°-180°	8492.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1899	1899	1899	1899	1899	
5°	1896	1893	1878	1892	1890	180
15°	1808	1803	1786	1794	1794	510
25°	1641	1633	1614	1617	1612	755
35°	1417	1411	1390	1382	1370	886
45°	1160	1154	1136	1118	1113	894
55°	884	879	858	844	834	789
65°	596	594	577	563	557	592
75°	317	314	306	302	296	337
85°	83	84	84	83	80	90
90°	1	9	15	20	22	8
95°	31	93	842	382	223	33
105°	107	150	689	1356	1259	113
115°	192	231	553	1192	1403	189
125°	266	312	530	948	1105	236
135°	312	375	526	795	918	242
145°	363	416	528	658	724	228
155°	414	446	515	582	607	191
165°	452	465	494	524	532	127
175°	470	470	474	480	478	45
180°	471	471	471	471	471	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1899.1	1899.1	1899.1	1899.1	1899.1
2.5°	1905.2	1900.6	1885.6	1900.6	1899.1
5°	1896.1	1893.1	1878.1	1891.6	1890.1
7.5°	1882.6	1879.6	1863.1	1876.6	1875.1
10°	1863.1	1860.1	1843.6	1855.6	1854.1
12.5°	1839.0	1833.0	1818.0	1827.0	1827.0
15°	1807.5	1803.0	1786.5	1794.0	1794.0
17.5°	1774.4	1766.9	1750.4	1759.4	1751.9
20°	1730.9	1727.9	1708.3	1718.8	1711.3
22.5°	1687.3	1681.3	1663.3	1669.3	1664.8
25°	1640.7	1633.2	1613.7	1616.7	1612.2
27.5°	1586.6	1582.1	1562.6	1564.1	1559.6
30°	1534.0	1529.5	1507.0	1504.0	1499.5
32.5°	1476.9	1469.4	1449.9	1443.9	1434.9
35°	1416.8	1410.8	1389.8	1382.3	1370.3
37.5°	1355.2	1347.7	1328.2	1317.7	1310.2
40°	1292.1	1284.6	1263.6	1250.1	1245.6
42.5°	1224.5	1218.5	1197.5	1185.5	1177.9
45°	1159.9	1153.9	1135.9	1117.8	1113.3
47.5°	1089.3	1090.8	1068.3	1050.2	1039.7
50°	1021.7	1017.2	999.2	979.6	969.1
52.5°	952.6	949.6	930.0	913.5	901.5
55°	883.5	879.0	857.9	844.4	833.9
57.5°	809.8	808.3	790.3	772.3	767.8
60°	740.7	734.7	718.2	703.2	692.6
62.5°	668.6	664.1	650.6	634.0	626.5
65°	596.5	593.5	577.0	563.4	557.4
67.5°	525.9	519.9	507.8	495.8	492.8
70°	459.8	452.2	438.7	429.7	423.7
72.5°	387.6	383.1	375.6	365.1	359.1
75°	317.0	314.0	306.5	302.0	296.0
77.5°	250.9	249.4	244.9	241.9	237.4
80°	189.3	189.3	186.3	184.8	181.8
82.5°	135.2	132.2	132.2	129.2	129.2
85°	82.6	84.1	84.1	82.6	79.6
87.5°	40.6	40.6	39.1	39.1	36.1
90°	1.0	8.6	15.2	20.0	21.9
92.5°	14.3	77.9	379.2	101.2	70.3
95°	31.4	92.6	841.9	382.0	223.3
97.5°	48.5	100.2	909.4	689.9	489.4
100°	66.5	115.0	858.1	975.0	741.2
102.5°	86.5	131.6	767.8	1216.4	1022.5
105°	107.4	150.1	688.9	1356.5	1259.1
107.5°	127.3	169.6	630.0	1395.9	1401.6
110°	149.2	190.0	591.1	1358.4	1466.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.0	210.5	568.3	1280.0	1458.6
115°	192.0	231.4	553.0	1192.1	1402.6
117.5°	211.0	252.8	544.5	1112.2	1318.0
120°	230.0	273.2	538.8	1045.3	1236.3
122.5°	249.9	293.2	534.0	991.6	1164.1
125°	266.1	311.6	530.2	948.4	1105.1
127.5°	279.4	329.8	528.3	911.3	1051.0
130°	291.7	346.8	526.4	873.8	1008.2
132.5°	301.2	362.0	526.4	833.4	965.5
135°	311.7	374.8	526.4	794.9	917.9
137.5°	325.0	386.8	527.4	754.5	868.5
140°	336.4	396.8	528.3	717.4	816.3
142.5°	349.7	406.2	529.3	685.6	767.8
145°	363.0	415.8	528.3	658.0	724.1
147.5°	377.3	424.3	526.4	634.3	685.1
150°	389.6	431.9	523.6	614.8	653.8
152.5°	402.9	439.5	519.8	598.2	629.1
155°	414.3	445.6	515.0	582.0	607.2
157.5°	424.8	451.8	510.3	566.8	587.3
160°	435.2	456.6	505.5	551.6	567.3
162.5°	443.8	461.4	499.8	537.8	549.2
165°	452.3	464.6	494.1	524.0	532.1
167.5°	458.0	466.6	488.4	511.2	516.0
170°	463.7	469.0	483.7	498.8	501.7
172.5°	467.5	469.9	478.0	488.9	488.4
175°	470.4	470.4	474.2	479.9	478.0
177.5°	472.3	470.4	471.3	474.2	471.3
180°	471.3	471.3	471.3	471.3	471.3

(END OF REPORT)