

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: P1027615

Luminaire Tested: S125DIP-B1270D1270UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027615
REPORT IS A COMBINATION OF REPORTS P1001638 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1270UB50-4F0-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

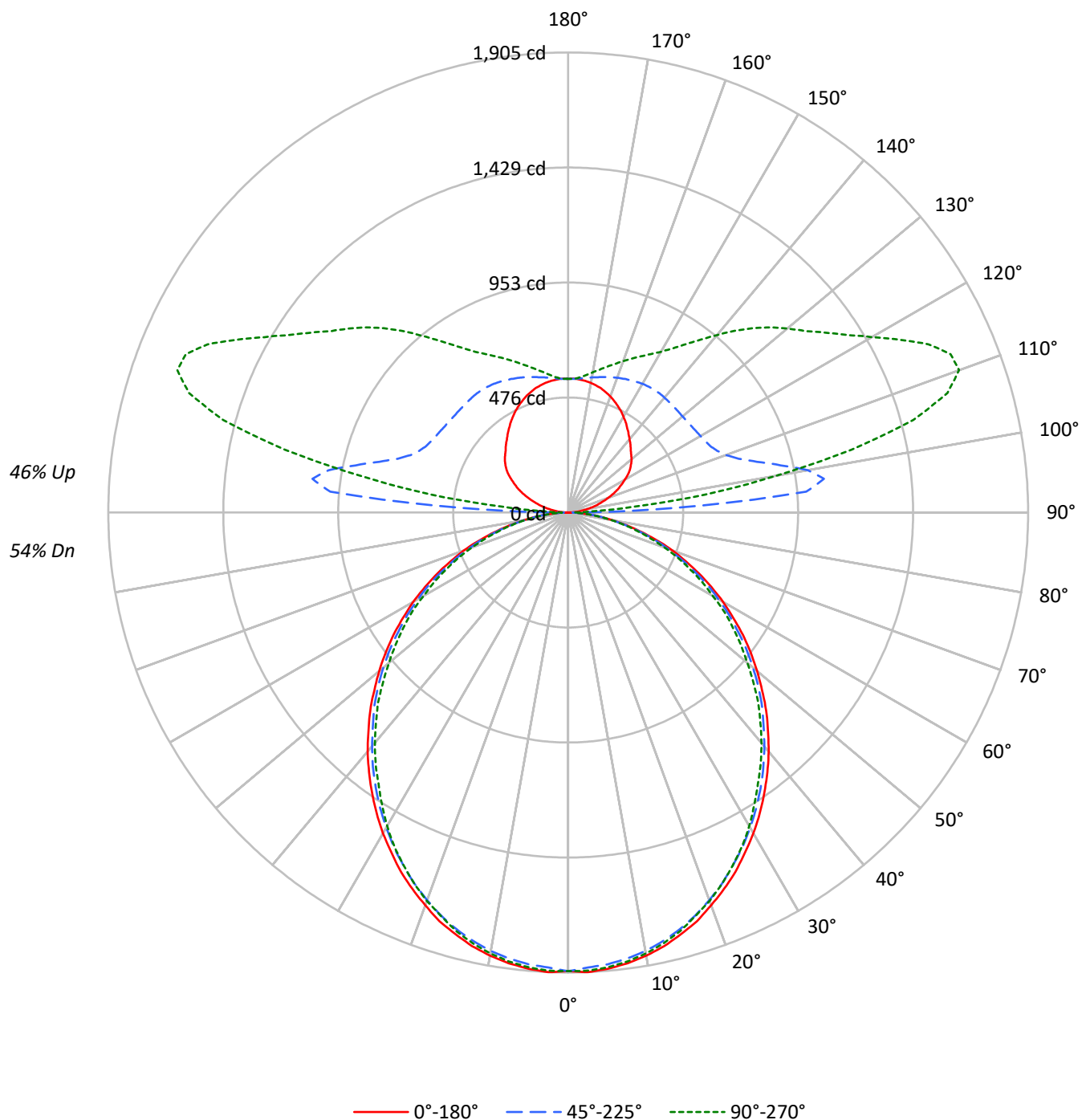
Lumens per Lamp: N/A
Luminaire Lumens: 9113.5 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60
1	99	94	90	87	91	88	84	81	75	73	70	64	62	60	53	52	51
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	47	44	43
3	82	72	65	59	76	67	61	56	58	53	49	49	46	42	41	39	36
4	75	64	56	50	69	60	53	47	52	46	42	44	40	36	37	34	31
5	69	57	49	43	64	53	46	40	46	40	36	39	35	31	33	30	27
6	63	51	43	37	59	48	41	35	42	36	31	36	31	28	30	27	24
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	28	24	21
8	54	42	34	29	50	39	32	27	34	29	25	30	25	22	25	22	19
9	51	38	31	26	47	36	29	24	32	26	22	27	23	20	23	20	17
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16

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	2.0
10°-20°	506.2	5.6
20°-30°	747.3	8.2
30°-40°	871.9	9.6
40°-50°	875.7	9.6
50°-60°	768.7	8.4
60°-70°	572.6	6.3
70°-80°	327.0	3.6
80°-90°	96.6	1.1
90°-100°	417.0	4.6
100°-110°	866.3	9.5
110°-120°	809.1	8.9
120°-130°	654.7	7.2
130°-140°	526.1	5.8
140°-150°	397.1	4.4
150°-160°	279.6	3.1
160°-170°	164.8	1.8
170°-180°	53.6	0.6
0°-30°	1432.7	15.7
0°-40°	2304.6	25.3
0°-60°	3949.0	43.3
0°-90°	4945.2	54.3
90°-120°	2092.5	23.0
90°-150°	3670.4	40.3
90°-180°	4168.0	45.7
0°-180°	9113.5	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	10	18	24	26	8
95°	37	109	989	449	262	38
105°	126	176	810	1594	1480	133
115°	226	272	650	1401	1648	222
125°	313	366	623	1114	1299	278
135°	366	440	619	934	1079	284
145°	426	488	621	773	851	267
155°	487	524	605	684	714	224
165°	532	546	581	616	625	150
175°	553	553	557	564	562	53
180°	554	554	554	554	554	

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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°	1.1	10.0	17.9	23.5	25.7
92.5°	16.7	91.6	445.5	118.9	82.6
95°	36.8	108.8	989.3	448.9	262.4
97.5°	56.9	117.8	1068.6	810.6	575.0
100°	78.2	135.2	1008.3	1145.6	870.9
102.5°	101.6	154.6	902.2	1429.2	1201.5
105°	126.2	176.4	809.5	1593.9	1479.5
107.5°	149.6	199.4	740.3	1640.2	1647.0
110°	175.3	223.3	694.5	1596.2	1722.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	201.0	247.4	667.7	1504.0	1714.0
115°	225.6	271.8	649.9	1400.8	1648.1
117.5°	247.9	297.0	639.8	1307.0	1548.7
120°	270.2	321.0	633.1	1228.2	1452.7
122.5°	293.7	344.4	627.5	1165.2	1367.8
125°	312.6	366.2	623.1	1114.4	1298.6
127.5°	328.3	387.4	620.8	1070.8	1234.9
130°	342.8	407.6	618.6	1026.7	1184.7
132.5°	354.0	425.4	618.6	979.2	1134.5
135°	366.2	440.5	618.6	934.0	1078.6
137.5°	381.9	454.4	619.7	886.6	1020.6
140°	395.3	466.2	620.8	843.0	959.2
142.5°	410.9	477.4	621.9	805.7	902.2
145°	426.5	488.5	620.8	773.2	850.8
147.5°	443.3	498.6	618.6	745.3	805.1
150°	457.8	507.5	615.2	722.4	768.2
152.5°	473.4	516.4	610.8	702.9	739.2
155°	486.8	523.7	605.2	684.0	713.5
157.5°	499.1	531.0	599.6	666.0	690.1
160°	511.4	536.5	594.0	648.2	666.6
162.5°	521.4	542.1	587.3	632.0	645.4
165°	531.5	546.0	580.6	615.8	625.3
167.5°	538.2	548.2	573.9	600.8	606.3
170°	544.9	551.0	568.3	586.2	589.6
172.5°	549.4	552.2	561.6	574.4	573.9
175°	552.7	552.7	557.2	563.9	561.6
177.5°	554.9	552.7	553.8	557.2	553.8
180°	553.8	553.8	553.8	553.8	553.8

(END OF REPORT)