

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: P1026813

Luminaire Tested: S125DIP-B1270D610UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026813
REPORT IS A COMBINATION OF REPORTS P1001722 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D610UB2750-4F0-XX-W2A-F_5000K
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

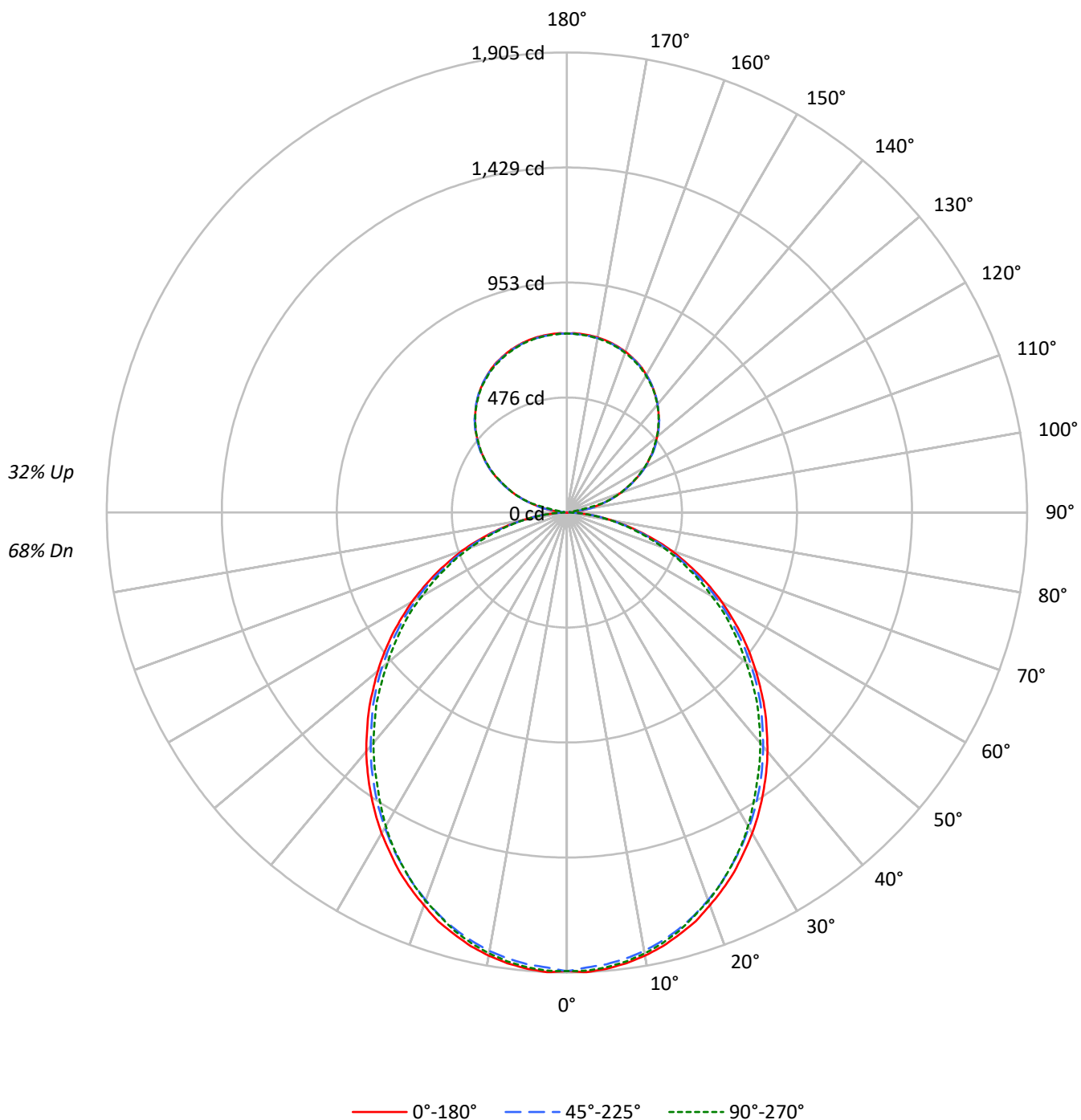
Lumens per Lamp: N/A
Luminaire Lumens: 7222.0 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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

TEST NUMBER: P1026813

CATALOG NUMBER: S125DIP-B1270D610UB2750-4F0-XX-W2A-F_5000K

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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	68		
1	102	97	93	90	96	92	88	85	82	79	77	73	71	69	65	63	62	58		
2	93	85	79	73	87	80	75	70	72	67	64	64	61	58	57	54	52	48		
3	85	75	67	61	80	71	64	58	63	58	54	57	52	49	50	47	44	41		
4	77	66	58	52	73	63	55	50	56	50	46	50	46	42	45	41	38	35		
5	71	59	51	44	67	56	48	43	51	44	39	45	40	36	40	36	33	30		
6	66	53	45	39	62	51	43	37	46	39	35	41	36	32	37	32	29	27		
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	34	29	26	24		
8	57	44	36	30	53	42	34	29	38	32	27	34	29	25	31	27	23	21		
9	53	40	32	27	50	38	31	26	35	29	24	32	26	23	28	24	21	19		
10	49	37	29	24	47	35	28	24	32	26	22	29	24	21	26	22	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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CATALOG NUMBER: S125DIP-B1270D610UB2750-4F0-XX-W2A-F_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	2.5
10°-20°	506.2	7.0
20°-30°	747.3	10.3
30°-40°	871.9	12.1
40°-50°	875.7	12.1
50°-60°	768.7	10.6
60°-70°	572.6	7.9
70°-80°	327.0	4.5
80°-90°	95.5	1.3
90°-100°	25.2	0.3
100°-110°	167.3	2.3
110°-120°	301.4	4.2
120°-130°	386.9	5.4
130°-140°	416.1	5.8
140°-150°	390.5	5.4
150°-160°	315.9	4.4
160°-170°	204.3	2.8
170°-180°	70.4	1.0
0°-30°	1432.7	19.8
0°-40°	2304.6	31.9
0°-60°	3949.0	54.7
0°-90°	4944.1	68.5
90°-120°	493.9	6.8
90°-150°	1687.3	23.4
90°-180°	2278.0	31.5
0°-180°	7222.0	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°	0	5	9	12	13	7
95°	31	30	9	12	12	38
105°	162	164	164	164	163	171
115°	303	306	307	304	301	301
125°	432	435	435	433	432	385
135°	538	542	540	539	536	415
145°	624	625	625	626	622	390
155°	687	684	685	687	682	317
165°	725	722	722	726	721	205
175°	742	738	739	743	738	71
180°	742	742	742	742	742	

TEST NUMBER: P1026813

CATALOG NUMBER: S125DIP-B1270D610UB2750-4F0-XX-W2A-F_5000K

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°	0.5	4.9	8.8	11.5	13.2
92.5°	10.4	5.5	8.8	11.5	12.1
95°	31.3	29.7	8.8	11.5	11.5
97.5°	58.8	62.1	9.9	11.0	11.5
100°	91.8	93.5	95.6	13.7	11.5
102.5°	125.3	127.5	128.6	129.7	83.6
105°	161.6	163.8	163.8	163.8	163.3
107.5°	199.0	199.0	200.1	200.6	198.4
110°	235.3	235.3	236.4	234.7	235.3

TEST NUMBER: P1026813

CATALOG NUMBER: S125DIP-B1270D610UB2750-4F0-XX-W2A-F_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	269.4	271.0	271.6	269.4	268.3
115°	303.4	306.2	306.7	304.5	301.2
117.5°	339.2	339.2	341.4	338.1	337.0
120°	372.2	371.6	373.3	372.2	369.4
122.5°	401.3	404.0	404.6	403.5	400.2
125°	431.5	435.4	435.4	433.2	431.5
127.5°	460.7	463.4	462.9	461.8	457.4
130°	487.0	489.8	490.3	488.7	485.9
132.5°	513.4	516.7	515.1	515.1	512.3
135°	538.2	541.5	540.4	539.3	536.0
137.5°	561.3	564.5	563.4	563.4	560.7
140°	583.8	584.9	584.3	585.4	582.1
142.5°	604.1	604.7	605.8	605.8	602.5
145°	623.9	625.0	625.0	625.6	622.3
147.5°	641.5	641.5	642.1	642.6	638.8
150°	658.0	656.9	658.0	659.1	654.7
152.5°	673.9	671.2	672.3	673.4	669.5
155°	687.1	683.8	684.9	686.6	682.2
157.5°	697.6	695.9	695.9	697.6	693.2
160°	708.6	705.3	705.8	708.0	703.6
162.5°	717.4	714.1	714.6	717.9	713.0
165°	725.1	721.8	722.3	725.6	721.2
167.5°	731.1	727.8	728.4	732.2	727.3
170°	736.1	732.2	732.8	737.2	732.2
172.5°	739.4	735.5	736.6	740.5	735.5
175°	741.6	738.3	738.8	743.2	738.3
177.5°	743.2	739.9	740.5	744.3	739.9
180°	741.6	741.6	741.6	741.6	741.6

(END OF REPORT)