

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: P1026811

Luminaire Tested: S125DIP-B1270D610UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026811
REPORT IS A COMBINATION OF REPORTS P1001720 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_3500K
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

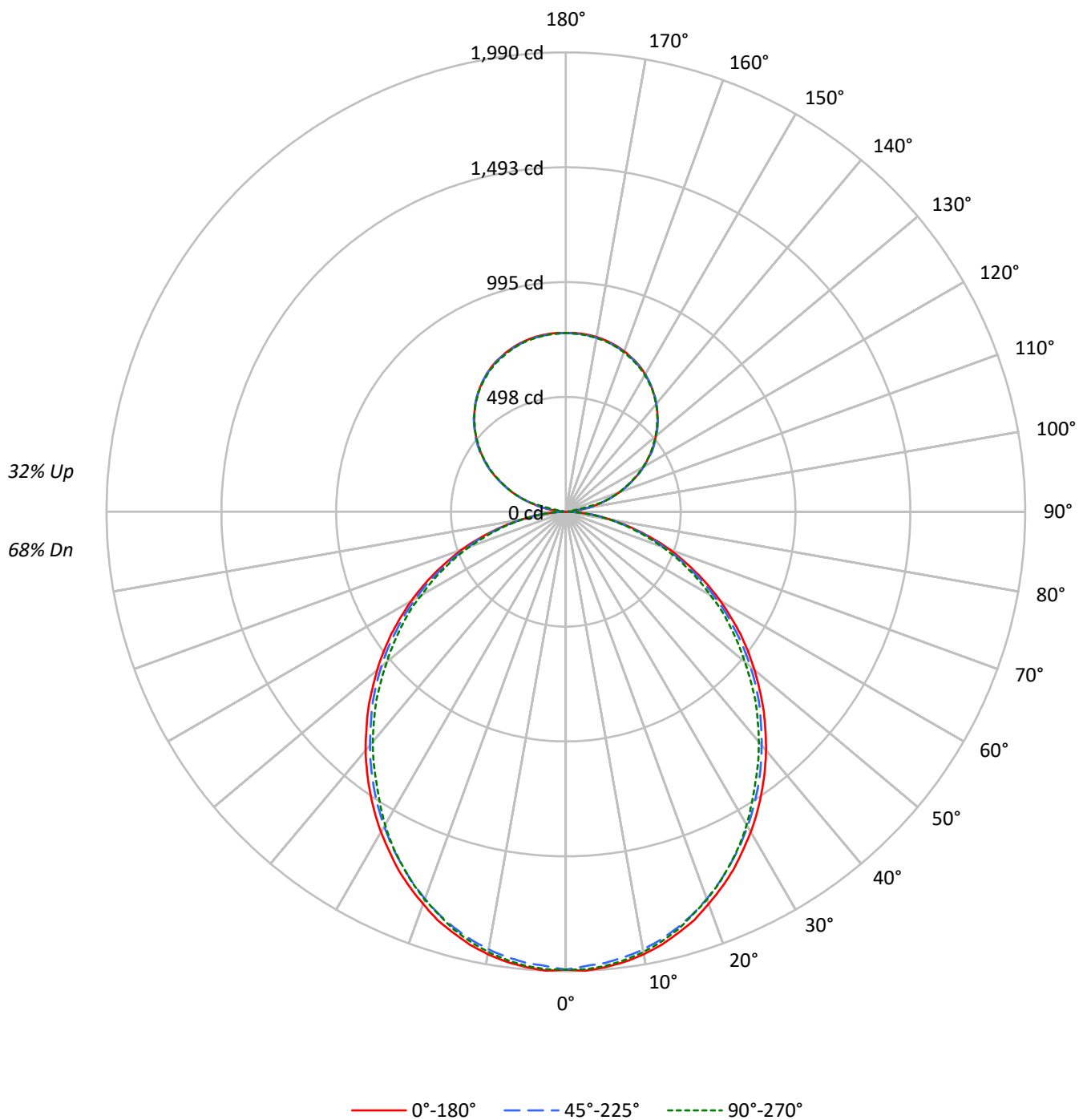
Lumens per Lamp: N/A
Luminaire Lumens: 7543.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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: P1026811

CATALOG NUMBER: S125DIP-B1270D610UB2750-4F0-XX-W2A-F_3500K

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	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°	12710	12710	12710
5°	12710	12415	12439
10°	12605	12130	12092
15°	12439	11790	11684
20°	12216	11395	11216
25°	11975	10964	10715
30°	11686	10516	10187
35°	11376	10046	9595
40°	11056	9548	9069
45°	10710	9064	8511
50°	10330	8515	7859
55°	9953	7909	7261
60°	9503	7270	6564
65°	8964	6530	5843
70°	8417	5681	5012
75°	7497	4677	4053
80°	6389	3494	2981
85°	4934	2067	1644

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10710 cd/sqm

TEST NUMBER: P1026811

CATALOG NUMBER: S125DIP-B1270D610UB2750-4F0-XX-W2A-F_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	2.5
10°-20°	528.7	7.0
20°-30°	780.6	10.3
30°-40°	910.7	12.1
40°-50°	914.7	12.1
50°-60°	802.9	10.6
60°-70°	598.0	7.9
70°-80°	341.6	4.5
80°-90°	99.8	1.3
90°-100°	26.3	0.3
100°-110°	174.8	2.3
110°-120°	314.7	4.2
120°-130°	404.0	5.4
130°-140°	434.5	5.8
140°-150°	407.8	5.4
150°-160°	329.9	4.4
160°-170°	213.3	2.8
170°-180°	73.6	1.0
0°-30°	1496.5	19.8
0°-40°	2407.2	31.9
0°-60°	4124.8	54.7
0°-90°	5164.2	68.5
90°-120°	515.8	6.8
90°-150°	1762.1	23.4
90°-180°	2379.0	31.5
0°-180°	7543.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1984	1984	1984	1984	1984	
5°	1980	1977	1962	1976	1974	188
15°	1888	1883	1866	1874	1874	532
25°	1714	1706	1686	1689	1684	789
35°	1480	1474	1452	1444	1431	926
45°	1212	1205	1186	1168	1163	933
55°	923	918	896	882	871	824
65°	623	620	603	588	582	618
75°	331	328	320	315	309	353
85°	86	88	88	86	83	95
90°	1	5	9	12	14	7
95°	33	31	9	12	12	40
105°	169	171	171	171	170	179
115°	317	320	320	318	315	314
125°	451	455	455	452	451	403
135°	562	566	564	563	560	433
145°	652	653	653	653	650	408
155°	718	714	715	717	712	331
165°	757	754	754	758	753	214
175°	774	771	772	776	771	74
180°	774	774	774	774	774	

TEST NUMBER: P1026811

CATALOG NUMBER: S125DIP-B1270D610UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1983.7	1983.7	1983.7	1983.7	1983.7
2.5°	1989.9	1985.2	1969.5	1985.2	1983.7
5°	1980.5	1977.4	1961.7	1975.8	1974.3
7.5°	1966.4	1963.3	1946.0	1960.1	1958.6
10°	1946.0	1942.9	1925.6	1938.2	1936.6
12.5°	1920.9	1914.6	1898.9	1908.3	1908.3
15°	1887.9	1883.2	1866.0	1873.8	1873.8
17.5°	1853.4	1845.6	1828.3	1837.7	1829.9
20°	1807.9	1804.8	1784.4	1795.3	1787.5
22.5°	1762.4	1756.1	1737.3	1743.6	1738.8
25°	1713.7	1705.9	1685.5	1688.6	1683.9
27.5°	1657.2	1652.5	1632.1	1633.7	1629.0
30°	1602.3	1597.6	1574.1	1570.9	1566.2
32.5°	1542.7	1534.8	1514.4	1508.2	1498.7
35°	1479.9	1473.6	1451.7	1443.8	1431.3
37.5°	1415.6	1407.7	1387.3	1376.3	1368.5
40°	1349.6	1341.8	1319.8	1305.7	1301.0
42.5°	1279.0	1272.7	1250.8	1238.2	1230.4
45°	1211.5	1205.3	1186.4	1167.6	1162.9
47.5°	1137.8	1139.4	1115.8	1097.0	1086.0
50°	1067.2	1062.5	1043.6	1023.2	1012.2
52.5°	995.0	991.8	971.4	954.2	941.6
55°	922.8	918.1	896.1	882.0	871.0
57.5°	845.9	844.3	825.5	806.6	801.9
60°	773.7	767.4	750.2	734.5	723.5
62.5°	698.4	693.7	679.5	662.3	654.4
65°	623.0	619.9	602.6	588.5	582.2
67.5°	549.3	543.0	530.4	517.9	514.7
70°	480.2	472.4	458.3	448.8	442.6
72.5°	404.9	400.2	392.3	381.4	375.1
75°	331.1	328.0	320.1	315.4	309.2
77.5°	262.1	260.5	255.8	252.7	248.0
80°	197.7	197.7	194.6	193.0	189.9
82.5°	141.2	138.1	138.1	135.0	135.0
85°	86.3	87.9	87.9	86.3	83.2
87.5°	42.4	42.4	40.8	40.8	37.7
90°	0.6	5.2	9.2	12.1	13.8
92.5°	10.9	5.7	9.2	12.1	12.6
95°	32.7	31.0	9.2	12.1	12.1
97.5°	61.4	64.9	10.3	11.5	12.1
100°	95.9	97.6	99.9	14.4	12.1
102.5°	130.9	133.2	134.3	135.5	87.3
105°	168.8	171.1	171.1	171.1	170.5
107.5°	207.8	207.8	209.0	209.5	207.2
110°	245.7	245.7	246.8	245.1	245.7

TEST NUMBER: P1026811

CATALOG NUMBER: S125DIP-B1270D610UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	281.3	283.0	283.6	281.3	280.1
115°	316.9	319.8	320.3	318.0	314.6
117.5°	354.2	354.2	356.5	353.1	351.9
120°	388.6	388.1	389.8	388.6	385.8
122.5°	419.1	421.9	422.5	421.4	417.9
125°	450.6	454.7	454.7	452.4	450.6
127.5°	481.1	483.9	483.4	482.2	477.6
130°	508.6	511.5	512.1	510.3	507.5
132.5°	536.2	539.6	537.9	537.9	535.0
135°	562.0	565.5	564.3	563.2	559.7
137.5°	586.1	589.6	588.4	588.4	585.6
140°	609.7	610.8	610.2	611.4	607.9
142.5°	630.9	631.5	632.6	632.6	629.2
145°	651.6	652.7	652.7	653.3	649.8
147.5°	669.9	669.9	670.5	671.1	667.1
150°	687.2	686.0	687.2	688.3	683.7
152.5°	703.8	700.9	702.1	703.2	699.2
155°	717.6	714.1	715.3	717.0	712.4
157.5°	728.5	726.8	726.8	728.5	723.9
160°	740.0	736.5	737.1	739.4	734.8
162.5°	749.2	745.7	746.3	749.7	744.6
165°	757.2	753.8	754.3	757.8	753.2
167.5°	763.5	760.1	760.6	764.7	759.5
170°	768.7	764.7	765.2	769.8	764.7
172.5°	772.1	768.1	769.3	773.3	768.1
175°	774.4	771.0	771.5	776.1	771.0
177.5°	776.1	772.7	773.3	777.3	772.7
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)