

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: P1027669

Luminaire Tested: S125DIP-B1270D610UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027669
REPORT IS A COMBINATION OF REPORTS P1001707 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D610UB27-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

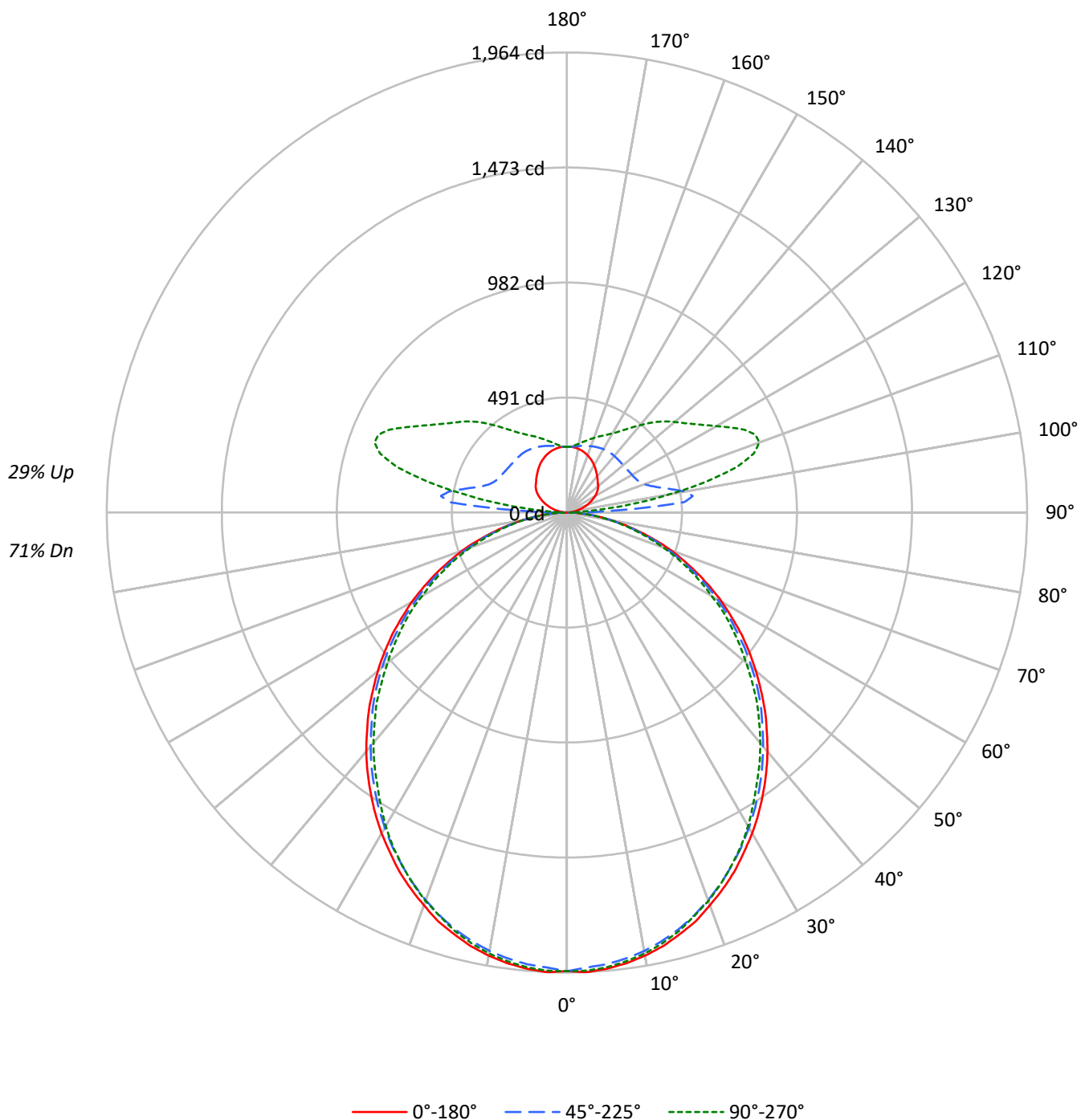
Lumens per Lamp: N/A
Luminaire Lumens: 7212.3 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63
2	93	85	79	74	88	81	75	71	73	68	64	65	62	59	58	56	53
3	85	75	67	61	80	71	64	59	64	59	54	58	53	50	52	48	45
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39
5	72	59	51	45	67	57	49	43	51	45	40	46	41	37	42	37	34
6	66	53	45	39	62	51	43	38	46	40	35	42	37	32	38	33	30
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	35	30	27
8	57	44	36	30	54	42	35	30	38	32	28	35	30	26	32	27	24
9	53	40	33	27	50	39	31	26	35	29	25	32	27	23	29	25	22
10	50	37	30	25	47	36	29	24	33	27	22	30	25	21	27	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12544	12544	12544
5°	12545	12253	12277
10°	12442	11972	11935
15°	12278	11637	11532
20°	12057	11247	11070
25°	11820	10822	10576
30°	11534	10379	10055
35°	11228	9915	9471
40°	10913	9424	8952
45°	10571	8946	8400
50°	10195	8404	7757
55°	9823	7806	7166
60°	9380	7176	6479
65°	8848	6446	5768
70°	8309	5607	4947
75°	7400	4617	4000
80°	6308	3449	2942
85°	4871	2039	1622

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10571 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.8	2.6
10°-20°	521.9	7.2
20°-30°	770.4	10.7
30°-40°	898.9	12.5
40°-50°	902.8	12.5
50°-60°	792.5	11.0
60°-70°	590.3	8.2
70°-80°	337.1	4.7
80°-90°	98.4	1.4
90°-100°	211.6	2.9
100°-110°	439.6	6.1
110°-120°	410.6	5.7
120°-130°	332.2	4.6
130°-140°	267.0	3.7
140°-150°	201.5	2.8
150°-160°	141.9	2.0
160°-170°	83.6	1.2
170°-180°	27.2	0.4
0°-30°	1477.1	20.5
0°-40°	2376.0	32.9
0°-60°	4071.3	56.4
0°-90°	5097.1	70.7
90°-120°	1061.9	14.7
90°-150°	1862.5	25.8
90°-180°	2115.0	29.3
0°-180°	7212.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1958	1958	1958	1958	1958	
5°	1955	1952	1936	1950	1949	186
15°	1863	1859	1842	1850	1850	525
25°	1692	1684	1664	1667	1662	778
35°	1461	1454	1433	1425	1413	914
45°	1196	1190	1171	1152	1148	921
55°	911	906	884	870	860	813
65°	615	612	595	581	575	610
75°	327	324	316	311	305	348
85°	85	87	87	85	82	93
90°	1	5	9	12	13	7
95°	19	55	502	228	133	19
105°	64	90	411	809	751	67
115°	114	138	330	711	836	113
125°	159	186	316	566	659	141
135°	186	224	314	474	547	144
145°	216	248	315	392	432	136
155°	247	266	307	347	362	114
165°	270	277	295	312	317	76
175°	280	280	283	286	285	27
180°	281	281	281	281	281	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1957.9	1957.9	1957.9	1957.9	1957.9
2.5°	1964.1	1959.5	1944.0	1959.5	1957.9
5°	1954.8	1951.7	1936.2	1950.2	1948.6
7.5°	1940.9	1937.8	1920.8	1934.7	1933.1
10°	1920.8	1917.7	1900.6	1913.0	1911.5
12.5°	1896.0	1889.8	1874.3	1883.6	1883.6
15°	1863.4	1858.8	1841.8	1849.5	1849.5
17.5°	1829.4	1821.6	1804.6	1813.9	1806.1
20°	1784.4	1781.3	1761.2	1772.0	1764.3
22.5°	1739.5	1733.3	1714.7	1720.9	1716.3
25°	1691.5	1683.8	1663.6	1666.7	1662.1
27.5°	1635.7	1631.1	1611.0	1612.5	1607.9
30°	1581.5	1576.9	1553.6	1550.5	1545.9
32.5°	1522.7	1514.9	1494.8	1488.6	1479.3
35°	1460.7	1454.5	1432.8	1425.1	1412.7
37.5°	1397.2	1389.4	1369.3	1358.5	1350.7
40°	1332.1	1324.4	1302.7	1288.8	1284.1
42.5°	1262.4	1256.2	1234.5	1222.2	1214.4
45°	1195.8	1189.6	1171.0	1152.5	1147.8
47.5°	1123.0	1124.6	1101.3	1082.7	1071.9
50°	1053.3	1048.7	1030.1	1009.9	999.1
52.5°	982.1	979.0	958.8	941.8	929.4
55°	910.8	906.2	884.5	870.5	859.7
57.5°	834.9	833.4	814.8	796.2	791.5
60°	763.7	757.5	740.4	724.9	714.1
62.5°	689.3	684.7	670.7	653.7	645.9
65°	614.9	611.9	594.8	580.9	574.7
67.5°	542.1	536.0	523.6	511.2	508.1
70°	474.0	466.2	452.3	443.0	436.8
72.5°	399.6	395.0	387.2	376.4	370.2
75°	326.8	323.7	316.0	311.3	305.2
77.5°	258.7	257.1	252.5	249.4	244.7
80°	195.2	195.2	192.1	190.5	187.4
82.5°	139.4	136.3	136.3	133.2	133.2
85°	85.2	86.7	86.7	85.2	82.1
87.5°	41.8	41.8	40.3	40.3	37.2
90°	0.6	5.1	9.1	11.9	13.0
92.5°	8.5	46.5	226.1	60.4	41.9
95°	18.7	55.2	502.0	227.8	133.2
97.5°	28.9	59.8	542.2	411.4	291.8
100°	39.7	68.6	511.7	581.3	442.0
102.5°	51.6	78.5	457.8	725.2	609.7
105°	64.0	89.6	410.8	808.8	750.8
107.5°	75.9	101.2	375.7	832.4	835.8
110°	89.0	113.4	352.4	810.0	874.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	102.0	125.5	338.8	763.2	869.7
115°	114.5	138.0	329.8	710.8	836.3
117.5°	125.8	150.7	324.7	663.2	785.9
120°	137.1	162.9	321.3	623.2	737.2
122.5°	149.0	174.8	318.4	591.2	694.1
125°	158.7	185.8	316.2	565.5	659.0
127.5°	166.6	196.6	315.0	543.4	626.7
130°	173.9	206.8	313.9	521.0	601.2
132.5°	179.6	215.8	313.9	497.0	575.7
135°	185.8	223.6	313.9	474.0	547.3
137.5°	193.8	230.6	314.5	449.9	517.9
140°	200.6	236.6	315.0	427.8	486.7
142.5°	208.5	242.2	315.6	408.8	457.8
145°	216.4	247.9	315.0	392.4	431.8
147.5°	224.9	253.0	313.9	378.2	408.5
150°	232.3	257.5	312.2	366.6	389.8
152.5°	240.2	262.0	309.9	356.7	375.1
155°	247.0	265.8	307.1	347.0	362.1
157.5°	253.3	269.4	304.3	338.0	350.2
160°	259.5	272.2	301.4	328.9	338.3
162.5°	264.6	275.1	298.0	320.7	327.5
165°	269.7	277.1	294.6	312.5	317.3
167.5°	273.1	278.2	291.2	304.8	307.7
170°	276.5	279.6	288.4	297.4	299.2
172.5°	278.8	280.2	285.0	291.5	291.2
175°	280.5	280.5	282.7	286.1	285.0
177.5°	281.6	280.5	281.0	282.7	281.0
180°	281.0	281.0	281.0	281.0	281.0

(END OF REPORT)