

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: P1027579

Luminaire Tested: S125DIP-B1270D1270UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027579
REPORT IS A COMBINATION OF REPORTS P1001587 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1270UB27-4F0-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

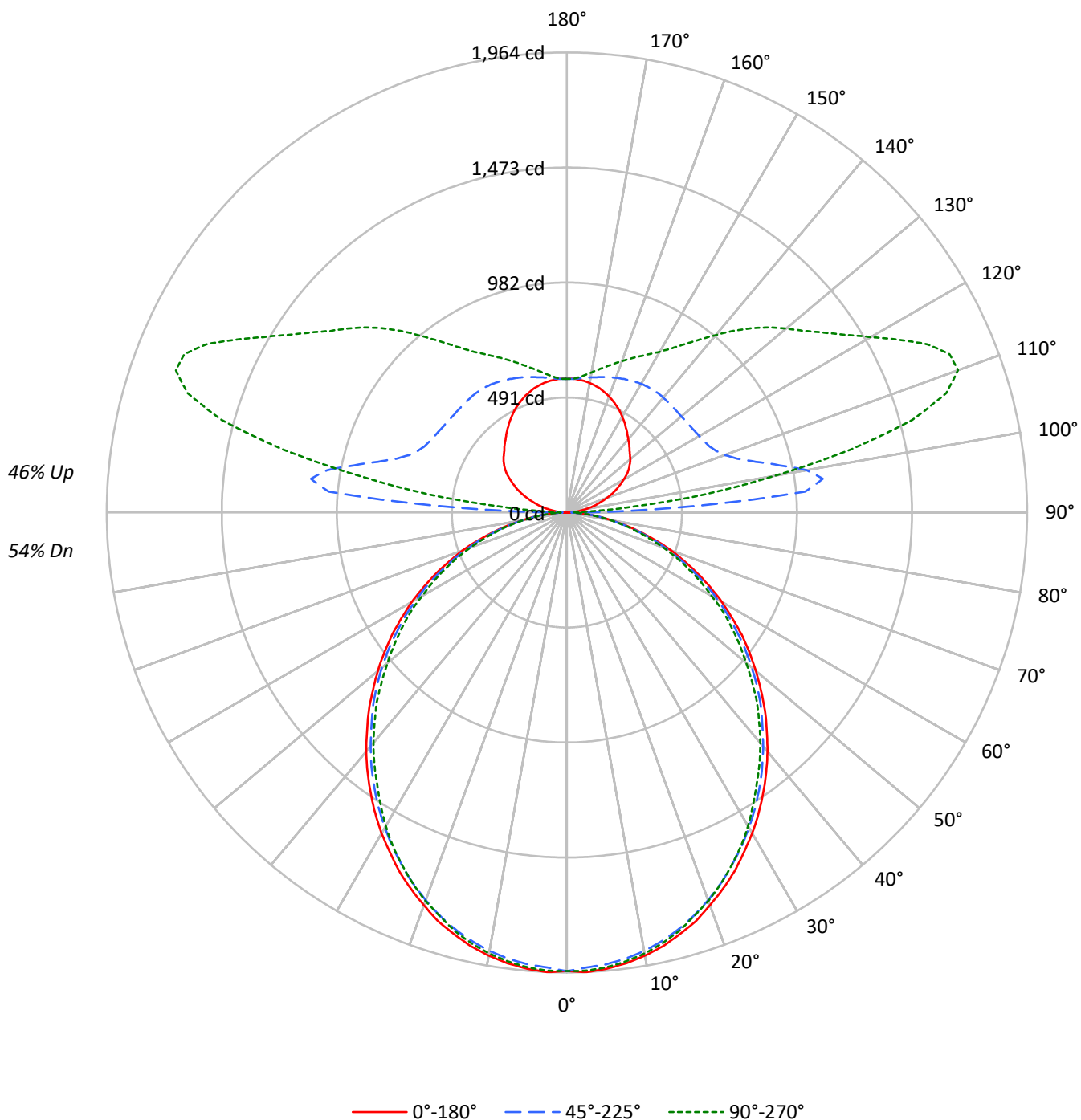
Lumens per Lamp: N/A
Luminaire Lumens: 9395.8 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	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	2.0
10°-20°	521.9	5.6
20°-30°	770.4	8.2
30°-40°	898.9	9.6
40°-50°	902.8	9.6
50°-60°	792.5	8.4
60°-70°	590.3	6.3
70°-80°	337.1	3.6
80°-90°	99.6	1.1
90°-100°	430.0	4.6
100°-110°	893.1	9.5
110°-120°	834.2	8.9
120°-130°	675.0	7.2
130°-140°	542.4	5.8
140°-150°	409.4	4.4
150°-160°	288.2	3.1
160°-170°	169.9	1.8
170°-180°	55.2	0.6
0°-30°	1477.1	15.7
0°-40°	2376.0	25.3
0°-60°	4071.3	43.3
0°-90°	5098.3	54.3
90°-120°	2157.3	23.0
90°-150°	3784.1	40.3
90°-180°	4298.0	45.7
0°-180°	9395.8	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	10	18	24	26	8
95°	38	112	1020	463	270	40
105°	130	182	835	1643	1525	137
115°	232	280	670	1444	1699	229
125°	322	378	642	1149	1339	286
135°	378	454	638	963	1112	293
145°	440	504	640	797	877	276
155°	502	540	624	705	736	231
165°	548	563	599	635	645	154
175°	570	570	574	581	579	54
180°	571	571	571	571	571	

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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°	1.2	10.4	18.4	24.2	26.5
92.5°	17.3	94.4	459.3	122.6	85.2
95°	38.0	112.2	1020.0	462.8	270.5
97.5°	58.7	121.4	1101.7	835.8	592.9
100°	80.6	139.3	1039.5	1181.2	897.9
102.5°	104.8	159.4	930.2	1473.5	1238.7
105°	130.1	181.9	834.6	1643.4	1525.3
107.5°	154.3	205.5	763.2	1691.1	1698.0
110°	180.7	230.2	716.0	1645.6	1776.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	207.2	255.0	688.4	1550.6	1767.1
115°	232.5	280.3	670.0	1444.2	1699.2
117.5°	255.6	306.2	659.6	1347.5	1596.7
120°	278.6	331.0	652.7	1266.4	1497.7
122.5°	302.8	355.2	647.0	1201.3	1410.2
125°	322.3	377.6	642.4	1148.9	1338.8
127.5°	338.5	399.4	640.1	1104.0	1273.2
130°	353.4	420.2	637.8	1058.5	1221.4
132.5°	364.9	438.6	637.8	1009.6	1169.6
135°	377.6	454.2	637.8	963.0	1112.1
137.5°	393.7	468.6	638.9	914.0	1052.2
140°	407.5	480.6	640.1	869.2	988.9
142.5°	423.6	492.1	641.2	830.6	930.2
145°	439.8	503.6	640.1	797.2	877.2
147.5°	457.0	514.0	637.8	768.4	830.0
150°	472.0	523.2	634.3	744.8	792.0
152.5°	488.1	532.4	629.7	724.7	762.1
155°	501.9	540.0	623.9	705.1	735.6
157.5°	514.6	547.4	618.2	686.7	711.4
160°	527.2	553.2	612.4	668.2	687.3
162.5°	537.6	558.9	605.5	651.6	665.4
165°	548.0	563.0	598.6	634.9	644.7
167.5°	554.9	565.2	591.7	619.3	625.1
170°	561.8	568.1	586.0	604.4	607.8
172.5°	566.4	569.2	579.1	592.3	591.7
175°	569.8	569.8	574.4	581.4	579.1
177.5°	572.1	569.8	571.0	574.4	571.0
180°	571.0	571.0	571.0	571.0	571.0

(END OF REPORT)