

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: P1027588

Luminaire Tested: S125DIP-B1270D1270UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027588
REPORT IS A COMBINATION OF REPORTS P1001611 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1270UB30-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

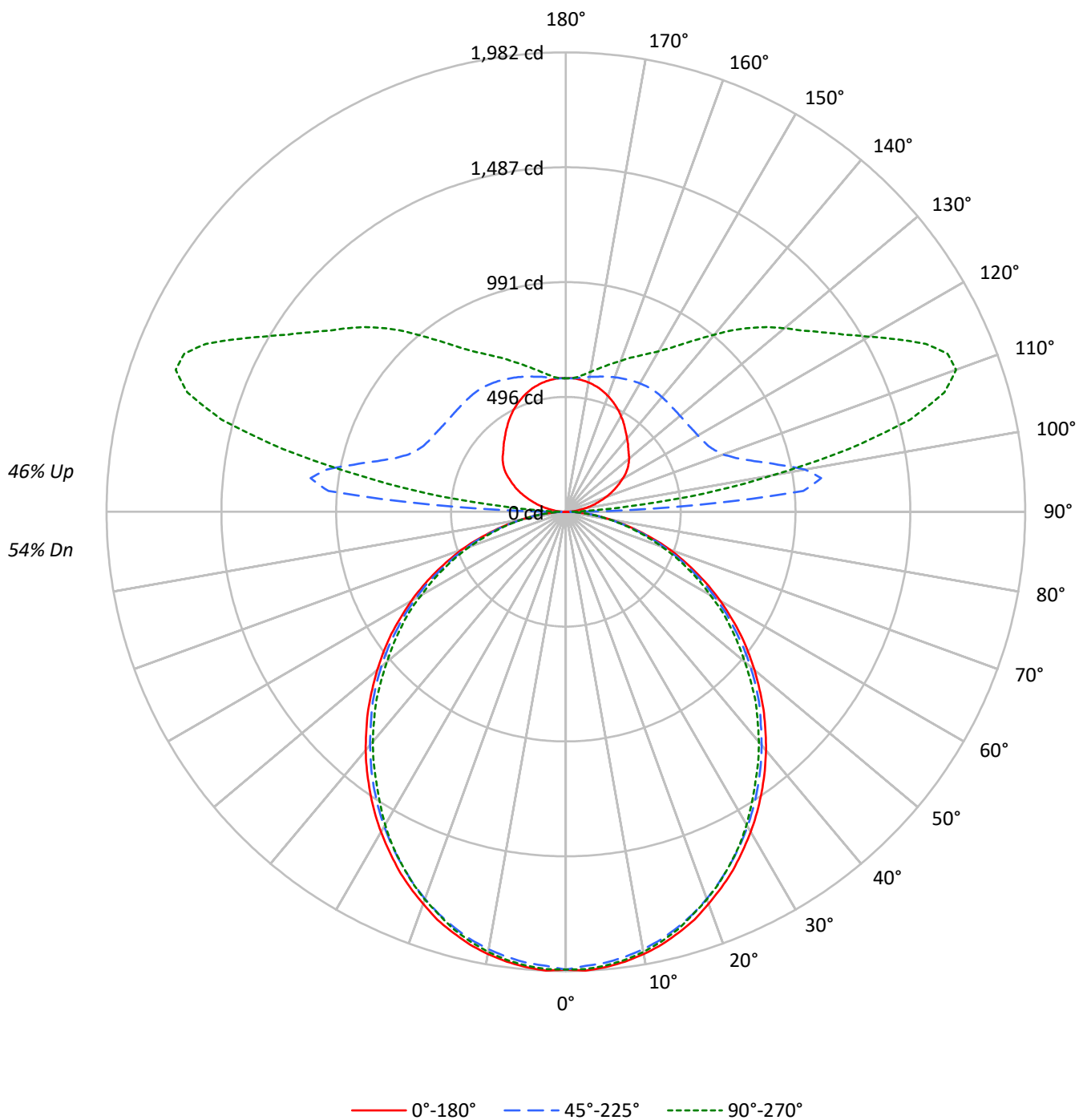
Lumens per Lamp: N/A
Luminaire Lumens: 9477.8 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	12655	12655	12655
5°	12656	12362	12385
10°	12551	12078	12040
15°	12387	11739	11634
20°	12164	11346	11168
25°	11924	10918	10669
30°	11636	10471	10143
35°	11328	10003	9554
40°	11009	9508	9031
45°	10665	9026	8474
50°	10285	8479	7826
55°	9911	7875	7230
60°	9462	7239	6536
65°	8927	6503	5819
70°	8382	5657	4991
75°	7465	4658	4035
80°	6363	3480	2969
85°	4911	2057	1636

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10665 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.4	2.0
10°-20°	526.5	5.6
20°-30°	777.2	8.2
30°-40°	906.8	9.6
40°-50°	910.8	9.6
50°-60°	799.5	8.4
60°-70°	595.5	6.3
70°-80°	340.1	3.6
80°-90°	100.5	1.1
90°-100°	433.7	4.6
100°-110°	900.8	9.5
110°-120°	841.4	8.9
120°-130°	680.8	7.2
130°-140°	547.0	5.8
140°-150°	412.9	4.4
150°-160°	290.7	3.1
160°-170°	171.4	1.8
170°-180°	55.7	0.6
0°-30°	1490.1	15.7
0°-40°	2396.9	25.3
0°-60°	4107.2	43.3
0°-90°	5143.3	54.3
90°-120°	2175.9	23.0
90°-150°	3816.8	40.3
90°-180°	4335.0	45.7
0°-180°	9477.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1975	1975	1975	1975	1975	
5°	1972	1969	1953	1967	1966	187
15°	1880	1875	1858	1866	1866	530
25°	1706	1699	1678	1681	1677	785
35°	1474	1467	1446	1438	1425	922
45°	1206	1200	1181	1163	1158	929
55°	919	914	892	878	867	820
65°	620	617	600	586	580	615
75°	330	327	319	314	308	351
85°	86	88	88	86	83	94
90°	1	10	19	24	27	8
95°	38	113	1029	467	273	40
105°	131	183	842	1658	1538	138
115°	234	283	676	1457	1714	231
125°	325	381	648	1159	1350	289
135°	381	458	643	971	1122	296
145°	444	508	646	804	885	278
155°	506	545	629	711	742	233
165°	553	568	604	640	650	156
175°	575	575	579	586	584	55
180°	576	576	576	576	576	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1975.2	1975.2	1975.2	1975.2	1975.2
2.5°	1981.5	1976.8	1961.2	1976.8	1975.2
5°	1972.1	1969.0	1953.3	1967.4	1965.8
7.5°	1958.0	1954.9	1937.7	1951.8	1950.2
10°	1937.7	1934.6	1917.4	1929.9	1928.3
12.5°	1912.7	1906.5	1890.8	1900.2	1900.2
15°	1879.9	1875.2	1858.0	1865.8	1865.8
17.5°	1845.5	1837.7	1820.5	1829.9	1822.1
20°	1800.2	1797.1	1776.8	1787.7	1779.9
22.5°	1754.9	1748.6	1729.9	1736.1	1731.4
25°	1706.4	1698.6	1678.3	1681.4	1676.7
27.5°	1650.2	1645.5	1625.2	1626.7	1622.1
30°	1595.5	1590.8	1567.4	1564.2	1559.5
32.5°	1536.1	1528.3	1508.0	1501.7	1492.4
35°	1473.6	1467.3	1445.5	1437.7	1425.2
37.5°	1409.5	1401.7	1381.4	1370.5	1362.6
40°	1343.9	1336.1	1314.2	1300.1	1295.5
42.5°	1273.6	1267.3	1245.4	1232.9	1225.1
45°	1206.4	1200.1	1181.4	1162.6	1157.9
47.5°	1132.9	1134.5	1111.1	1092.3	1081.4
50°	1062.6	1057.9	1039.2	1018.9	1007.9
52.5°	990.7	987.6	967.3	950.1	937.6
55°	918.9	914.2	892.3	878.2	867.3
57.5°	842.3	840.7	822.0	803.2	798.5
60°	770.4	764.1	747.0	731.3	720.4
62.5°	695.4	690.7	676.6	659.4	651.6
65°	620.4	617.3	600.1	586.0	579.8
67.5°	546.9	540.7	528.2	515.7	512.6
70°	478.2	470.4	456.3	446.9	440.7
72.5°	403.2	398.5	390.7	379.7	373.5
75°	329.7	326.6	318.8	314.1	307.8
77.5°	261.0	259.4	254.7	251.6	246.9
80°	196.9	196.9	193.8	192.2	189.1
82.5°	140.6	137.5	137.5	134.4	134.4
85°	85.9	87.5	87.5	85.9	82.8
87.5°	42.2	42.2	40.6	40.6	37.5
90°	1.2	10.4	18.6	24.4	26.7
92.5°	17.4	95.2	463.3	123.6	85.9
95°	38.3	113.2	1028.8	466.8	272.9
97.5°	59.2	122.5	1111.2	843.0	598.0
100°	81.3	140.5	1048.5	1191.3	905.7
102.5°	105.7	160.8	938.2	1486.2	1249.4
105°	131.2	183.4	841.8	1657.5	1538.5
107.5°	155.6	207.2	769.8	1705.6	1712.7
110°	182.3	232.2	722.2	1659.8	1791.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	209.0	257.2	694.4	1564.1	1782.3
115°	234.5	282.7	675.8	1456.6	1713.8
117.5°	257.8	308.8	665.3	1359.1	1610.5
120°	281.0	333.8	658.4	1277.2	1510.6
122.5°	305.4	358.2	652.6	1211.6	1422.4
125°	325.1	380.8	647.9	1158.8	1350.4
127.5°	341.4	402.9	645.6	1113.5	1284.2
130°	356.5	423.8	643.3	1067.6	1232.0
132.5°	368.1	442.4	643.3	1018.3	1179.7
135°	380.8	458.0	643.3	971.3	1121.6
137.5°	397.1	472.6	644.4	922.0	1061.3
140°	411.0	484.8	645.6	876.6	997.4
142.5°	427.3	496.4	646.7	837.8	938.2
145°	443.5	508.0	645.6	804.1	884.8
147.5°	461.0	518.4	643.3	775.0	837.2
150°	476.1	527.8	639.8	751.2	798.9
152.5°	492.3	537.0	635.1	731.0	768.7
155°	506.3	544.6	629.3	711.2	742.0
157.5°	519.0	552.1	623.5	692.6	717.6
160°	531.8	557.9	617.7	674.0	693.2
162.5°	542.2	563.8	610.8	657.2	671.1
165°	552.7	567.8	603.8	640.4	650.2
167.5°	559.7	570.1	596.8	624.7	630.5
170°	566.6	573.0	591.0	609.6	613.1
172.5°	571.3	574.2	584.0	597.4	596.8
175°	574.8	574.8	579.4	586.4	584.0
177.5°	577.1	574.8	575.9	579.4	575.9
180°	575.9	575.9	575.9	575.9	575.9

(END OF REPORT)