

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: P1027587

Luminaire Tested: S125DIP-B1270D1270UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027587
REPORT IS A COMBINATION OF REPORTS P1001610 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-F1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

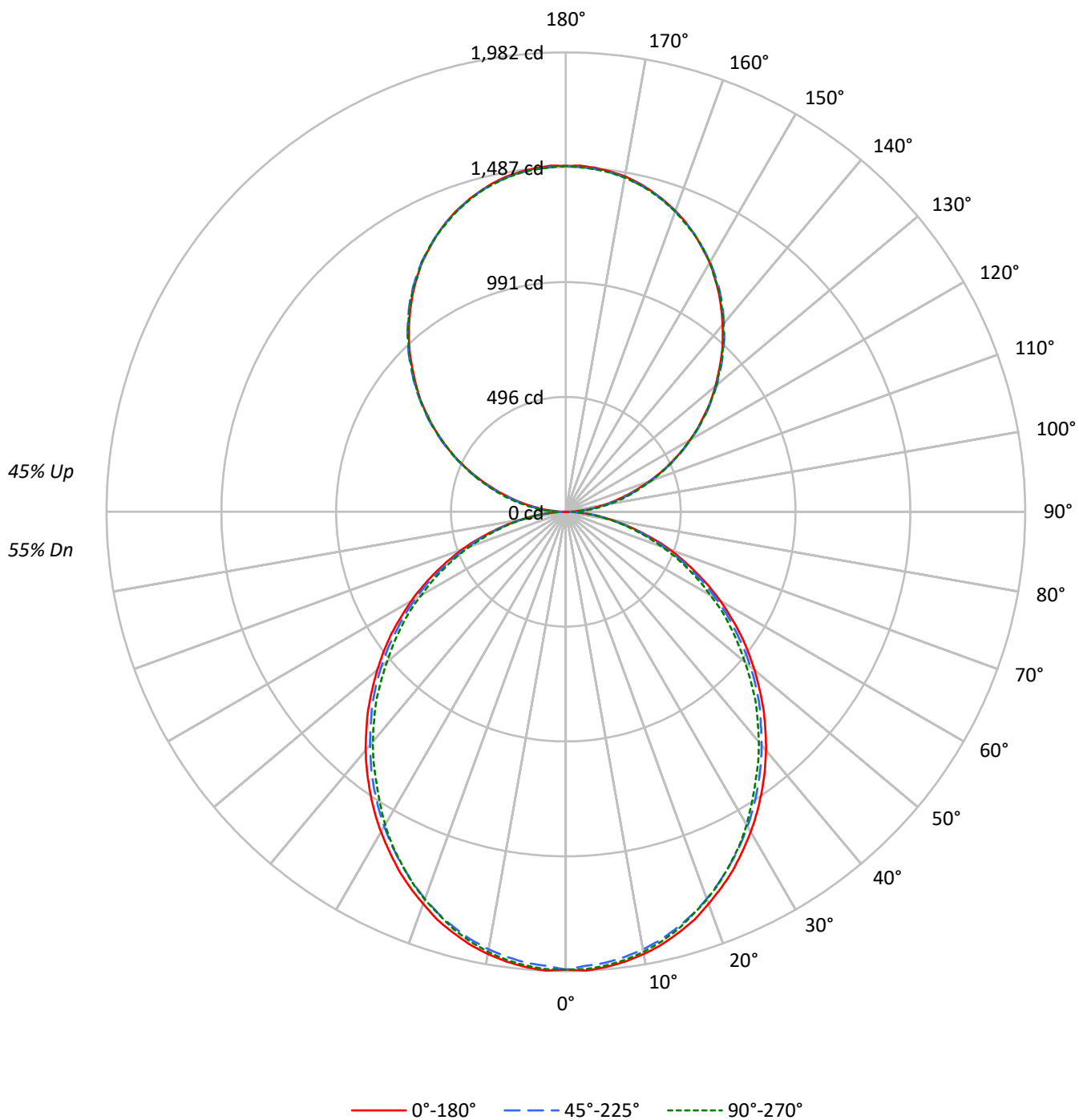
Lumens per Lamp: N/A
Luminaire Lumens: 9308.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	101	101	101	101	86	86	86	73	73	73	61	61	61
1	99	94	91	87	92	88	84	81	76	73	71	64	62	61	54	53	51
2	90	82	76	71	83	77	71	67	66	62	59	56	53	51	47	45	43
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32
5	69	57	49	43	64	53	46	41	46	41	36	40	35	32	34	30	28
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22
8	55	42	34	29	51	40	32	28	35	29	25	30	25	22	26	22	19
9	51	38	31	26	47	36	29	25	32	26	22	28	23	20	24	20	17
10	48	35	28	23	44	33	27	22	29	24	20	26	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	5.7
20°-30°	777.2	8.4
30°-40°	906.8	9.7
40°-50°	910.8	9.8
50°-60°	799.5	8.6
60°-70°	595.5	6.4
70°-80°	340.1	3.7
80°-90°	100.5	1.1
90°-100°	99.2	1.1
100°-110°	294.8	3.2
110°-120°	499.9	5.4
120°-130°	658.2	7.1
130°-140°	737.5	7.9
140°-150°	722.9	7.8
150°-160°	607.2	6.5
160°-170°	403.6	4.3
170°-180°	141.3	1.5
0°-30°	1490.1	16.0
0°-40°	2396.9	25.8
0°-60°	4107.2	44.1
0°-90°	5143.3	55.3
90°-120°	894.0	9.6
90°-150°	3012.5	32.4
90°-180°	4165.0	44.7
0°-180°	9308.0	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	28	11
95°	76	78	89	98	100	79
105°	265	271	278	284	288	282
115°	500	505	508	506	505	495
125°	730	737	739	736	735	654
135°	950	957	958	958	953	732
145°	1151	1156	1159	1159	1156	719
155°	1317	1317	1318	1323	1317	607
165°	1432	1430	1431	1435	1428	404
175°	1489	1484	1484	1491	1483	141
180°	1492	1492	1492	1492	1492	

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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	10.5	18.6	24.4	27.9
92.5°	34.8	40.6	51.1	59.2	61.5
95°	75.5	77.8	89.4	97.5	99.9
97.5°	116.1	117.3	133.5	140.5	141.7
100°	162.6	162.6	177.7	188.1	190.4
102.5°	212.5	218.3	224.1	235.7	239.2
105°	264.8	270.6	277.5	284.5	288.0
107.5°	321.7	327.5	333.3	336.8	336.8
110°	380.9	386.7	390.2	393.7	392.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	441.3	443.6	448.2	449.4	447.1
115°	500.5	505.1	507.5	506.3	505.1
117.5°	560.9	562.1	564.4	565.5	560.9
120°	616.6	622.4	623.6	623.6	619.0
122.5°	677.0	678.2	681.7	680.5	677.0
125°	730.4	737.4	738.6	736.2	735.1
127.5°	789.7	793.1	794.3	793.1	790.8
130°	841.9	847.7	850.0	848.9	846.6
132.5°	894.2	904.6	903.5	902.3	898.8
135°	949.9	956.9	958.0	958.0	953.4
137.5°	1002.2	1009.1	1011.5	1012.6	1006.8
140°	1052.1	1057.9	1061.4	1063.7	1057.9
142.5°	1102.0	1106.7	1111.3	1112.5	1106.7
145°	1150.8	1155.5	1158.9	1158.9	1155.5
147.5°	1196.1	1199.6	1201.9	1205.4	1196.1
150°	1241.4	1240.2	1244.9	1244.9	1242.6
152.5°	1278.6	1280.9	1282.0	1285.5	1280.9
155°	1316.9	1316.9	1318.0	1322.7	1316.9
157.5°	1351.7	1349.4	1350.5	1355.2	1347.1
160°	1381.9	1378.4	1379.6	1384.2	1378.4
162.5°	1408.6	1406.3	1406.3	1412.1	1405.1
165°	1431.8	1429.5	1430.7	1435.3	1428.4
167.5°	1452.7	1448.1	1448.1	1455.1	1448.1
170°	1469.0	1464.4	1464.4	1471.3	1463.2
172.5°	1480.6	1476.0	1476.0	1482.9	1476.0
175°	1488.7	1484.1	1484.1	1491.1	1482.9
177.5°	1494.5	1489.9	1488.7	1495.7	1487.6
180°	1492.2	1492.2	1492.2	1492.2	1492.2

(END OF REPORT)