

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: P1027583

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027583
REPORT IS A COMBINATION OF REPORTS P1001606 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-D
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

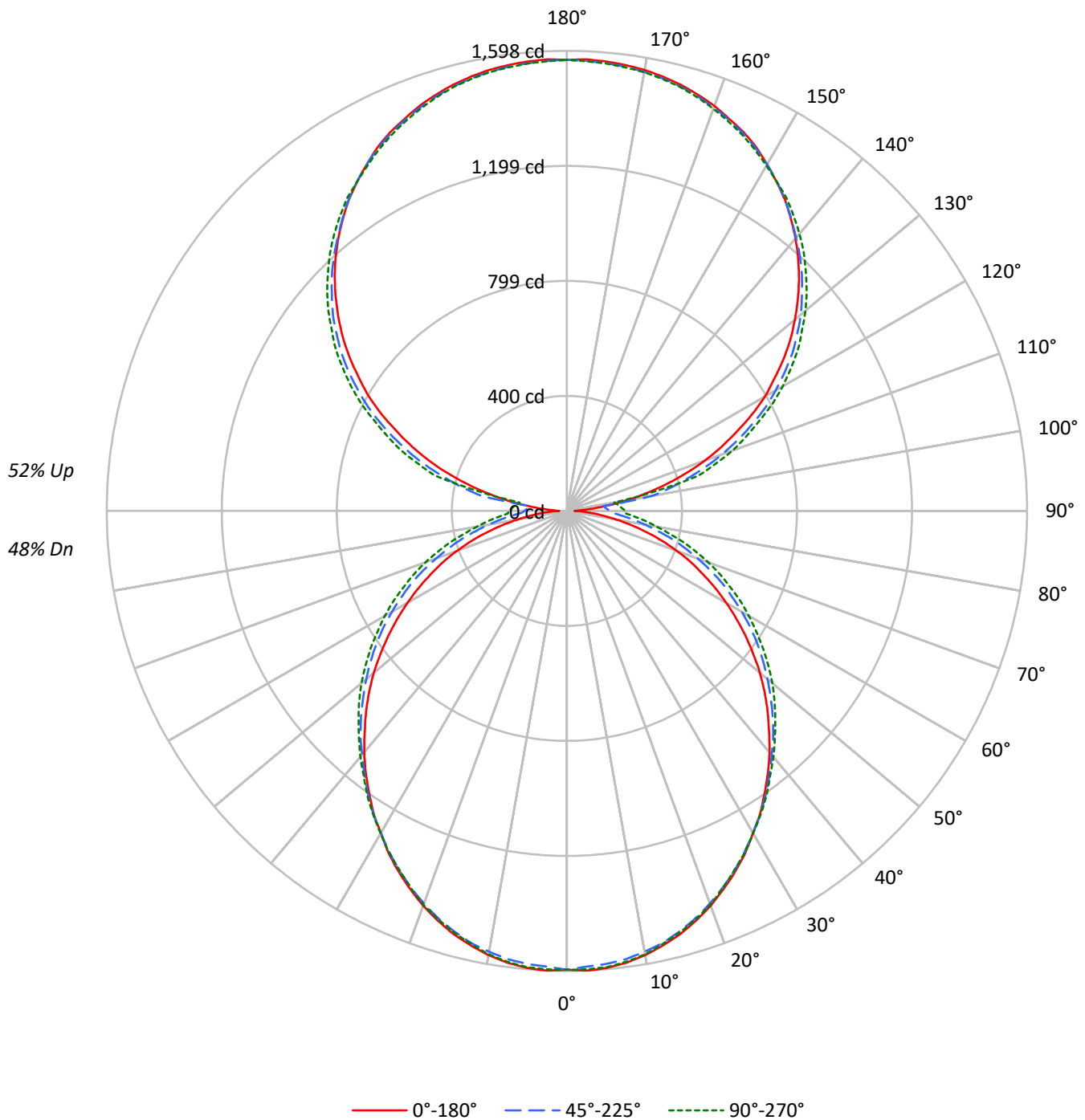
Lumens per Lamp: N/A
Luminaire Lumens: 9752.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48		
1	97	92	88	84	89	85	81	78	71	68	66	58	56	55	47	45	44	39		
2	88	80	73	68	80	74	68	63	62	58	54	51	48	45	41	38	37	32		
3	80	70	62	56	73	64	58	53	54	49	45	45	41	38	36	33	31	27		
4	73	62	54	47	67	57	50	44	48	42	38	40	35	32	32	29	26	23		
5	67	55	47	40	61	51	43	38	43	37	33	35	31	28	29	25	23	20		
6	61	49	41	35	56	45	38	33	38	33	28	32	28	24	26	23	20	17		
7	57	44	36	31	52	41	34	29	35	29	25	29	25	21	24	20	18	15		
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	18	16	13		
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	20	17	14	12		
10	46	34	26	21	42	31	25	20	27	21	18	22	18	15	18	15	13	11		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10211	10211	10211
5°	10228	9997	10021
10°	10151	9793	9765
15°	10027	9556	9450
20°	9860	9269	9137
25°	9663	8965	8759
30°	9423	8632	8414
35°	9200	8326	8097
40°	8973	8003	7777
45°	8715	7723	7490
50°	8469	7419	7230
55°	8173	7129	6929
60°	7848	6799	6620
65°	7510	6451	6273
70°	7120	5985	5910
75°	6510	5524	5469
80°	5707	4966	4980
85°	4911	4519	4723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8715 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	1.5
10°-20°	428.1	4.4
20°-30°	636.6	6.5
30°-40°	754.0	7.7
40°-50°	779.5	8.0
50°-60°	718.0	7.4
60°-70°	580.5	6.0
70°-80°	388.4	4.0
80°-90°	203.1	2.1
90°-100°	166.3	1.7
100°-110°	436.9	4.5
110°-120°	692.5	7.1
120°-130°	848.9	8.7
130°-140°	892.9	9.2
140°-150°	827.8	8.5
150°-160°	667.4	6.8
160°-170°	431.6	4.4
170°-180°	148.8	1.5
0°-30°	1215.5	12.5
0°-40°	1969.5	20.2
0°-60°	3467.0	35.6
0°-90°	4638.9	47.6
90°-120°	1295.7	13.3
90°-150°	3865.3	39.6
90°-180°	5113.0	52.4
0°-180°	9752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1594	1591	1580	1592	1591	151
15°	1522	1523	1512	1522	1516	429
25°	1383	1388	1378	1384	1376	637
35°	1197	1208	1203	1208	1208	749
45°	986	1003	1011	1022	1023	761
55°	758	783	808	825	831	677
65°	522	558	595	619	625	518
75°	288	328	378	409	417	305
85°	86	138	192	227	239	90
90°	26	86	147	188	203	21
95°	86	124	133	173	184	97
105°	356	385	432	463	473	377
115°	650	667	709	732	735	645
125°	918	924	956	976	980	820
135°	1140	1146	1154	1172	1173	879
145°	1320	1320	1320	1330	1329	825
155°	1452	1445	1447	1451	1441	669
165°	1532	1525	1526	1533	1524	433
175°	1567	1560	1561	1570	1560	149
180°	1567	1567	1567	1567	1567	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.7	1593.7	1593.7	1593.7	1593.7
2.5°	1598.4	1595.3	1584.3	1595.3	1593.7
5°	1593.7	1590.6	1579.6	1592.1	1590.6
7.5°	1582.8	1581.2	1570.3	1581.2	1579.6
10°	1567.1	1567.1	1554.6	1565.6	1564.0
12.5°	1545.3	1546.8	1537.5	1545.3	1540.6
15°	1521.8	1523.4	1512.5	1521.8	1515.6
17.5°	1492.1	1495.3	1484.3	1492.1	1487.5
20°	1459.3	1462.5	1451.5	1456.2	1456.2
22.5°	1421.8	1428.1	1415.6	1421.8	1417.1
25°	1382.8	1387.5	1378.1	1384.3	1376.5
27.5°	1340.6	1346.8	1335.9	1340.6	1337.5
30°	1292.1	1301.5	1292.1	1295.3	1293.7
32.5°	1248.4	1256.2	1250.0	1253.1	1251.5
35°	1196.8	1207.8	1203.1	1207.8	1207.8
37.5°	1146.8	1156.2	1154.7	1160.9	1159.3
40°	1095.3	1107.8	1106.2	1112.5	1115.6
42.5°	1039.0	1056.2	1060.9	1068.7	1068.7
45°	985.9	1003.1	1010.9	1021.8	1023.4
47.5°	931.2	946.8	959.3	975.0	978.1
50°	875.0	892.2	909.3	926.5	931.2
52.5°	815.6	837.5	859.3	878.1	881.2
55°	757.8	782.8	807.8	825.0	831.2
57.5°	698.4	728.1	756.2	775.0	779.7
60°	639.0	670.3	701.5	725.0	729.7
62.5°	581.2	612.5	646.9	673.4	679.7
65°	521.9	557.8	595.3	618.7	625.0
67.5°	467.2	501.5	539.0	567.2	575.0
70°	406.2	442.2	482.8	512.5	521.9
72.5°	346.9	384.4	429.7	462.5	468.7
75°	287.5	328.1	378.1	409.4	417.2
77.5°	229.7	276.6	323.4	357.8	364.1
80°	176.6	223.4	276.6	310.9	317.2
82.5°	128.1	178.1	232.8	265.6	278.1
85°	85.9	137.5	192.2	226.6	239.1
87.5°	54.7	104.7	157.8	193.7	204.7
90°	26.2	85.5	146.7	188.5	202.9
92.5°	44.0	78.8	140.5	180.6	192.8
95°	86.5	123.6	132.7	172.8	183.8
97.5°	143.0	187.4	128.7	163.8	176.0
100°	211.2	247.4	302.1	161.8	166.6
102.5°	280.4	314.7	365.5	399.1	310.9
105°	355.6	385.2	432.0	463.3	473.0
107.5°	432.9	454.8	502.5	534.8	539.6
110°	508.0	526.8	572.8	599.0	611.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	580.0	597.6	640.9	664.4	673.0
115°	650.5	667.2	709.0	732.5	734.8
117.5°	724.4	732.2	775.9	795.5	804.1
120°	794.1	797.6	837.0	861.3	864.9
122.5°	854.0	861.4	897.0	919.7	922.1
125°	917.9	924.5	955.7	976.1	980.4
127.5°	978.0	982.2	1007.6	1028.7	1028.8
130°	1033.7	1037.9	1061.0	1079.4	1081.4
132.5°	1087.9	1094.8	1106.9	1128.8	1129.3
135°	1140.1	1145.6	1154.2	1172.1	1173.0
137.5°	1188.9	1194.4	1198.2	1217.0	1217.4
140°	1235.0	1237.3	1237.7	1257.2	1256.5
142.5°	1278.0	1277.5	1279.9	1294.0	1293.2
145°	1319.8	1320.5	1320.5	1329.5	1328.8
147.5°	1355.4	1355.4	1356.5	1360.8	1355.8
150°	1390.2	1387.9	1390.2	1392.5	1384.8
152.5°	1423.9	1418.1	1420.4	1422.7	1414.6
155°	1451.8	1444.8	1447.1	1450.6	1441.3
157.5°	1473.8	1470.3	1470.3	1473.8	1464.5
160°	1497.0	1490.1	1491.2	1495.9	1486.6
162.5°	1515.6	1508.7	1509.8	1516.8	1506.3
165°	1531.9	1524.9	1526.1	1533.1	1523.8
167.5°	1544.7	1537.7	1538.9	1547.0	1536.5
170°	1555.1	1547.0	1548.2	1557.4	1547.0
172.5°	1562.1	1554.0	1556.3	1564.4	1554.0
175°	1566.7	1559.8	1560.9	1570.2	1559.8
177.5°	1570.2	1563.2	1564.4	1572.5	1563.2
180°	1566.7	1566.7	1566.7	1566.7	1566.7

(END OF REPORT)