

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: P1027593

Luminaire Tested: S125DIP-B1270D1270UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027593
REPORT IS A COMBINATION OF REPORTS P1001616 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1270UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

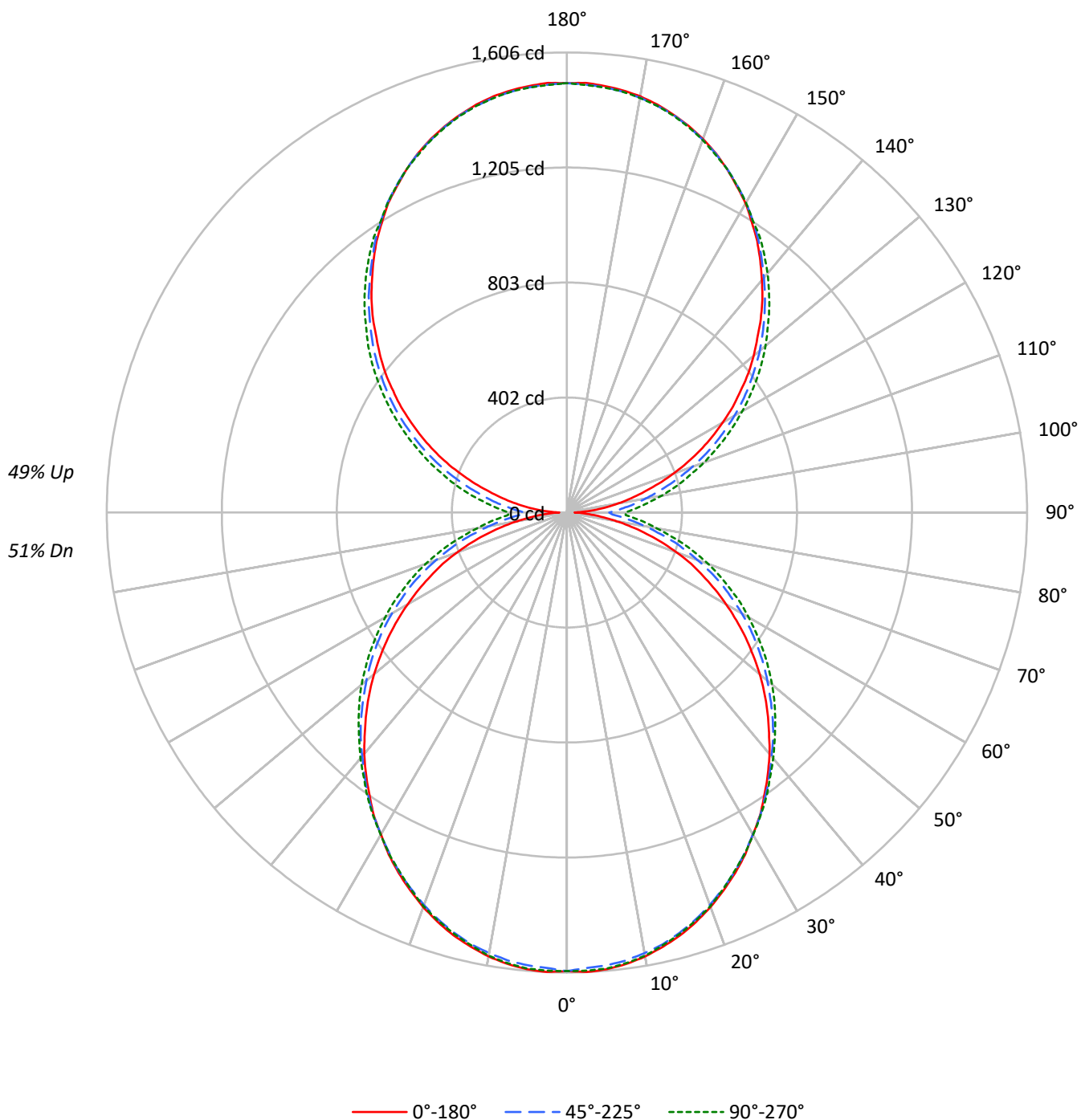
Lumens per Lamp: N/A
Luminaire Lumens: 9144.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	99	99	99	99	84	84	84	70	70	70	57	57	57	57	57	57
1	97	93	88	85	90	86	82	79	72	70	67	60	58	57	49	48	47	47	47	41
2	88	80	74	69	81	74	69	64	63	59	55	53	49	47	43	41	39	39	39	34
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	38	35	33	33	33	28
4	73	62	54	48	67	58	50	45	49	43	39	41	37	33	34	30	28	28	28	24
5	67	55	47	41	62	51	44	38	44	38	33	37	32	29	30	27	24	24	24	21
6	62	50	41	35	57	46	39	33	39	33	29	33	29	25	27	24	21	21	21	18
7	57	45	37	31	53	42	34	29	36	30	26	30	26	22	25	21	19	19	19	16
8	53	41	33	27	49	38	31	26	32	27	23	28	23	20	23	19	17	17	17	14
9	49	37	29	24	46	34	28	23	30	24	20	25	21	18	21	18	15	15	15	13
10	46	34	27	22	43	32	25	21	27	22	18	23	19	16	20	16	14	14	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10256	10256	10256
5°	10273	10042	10066
10°	10196	9837	9809
15°	10072	9599	9492
20°	9904	9311	9178
25°	9706	9004	8798
30°	9466	8671	8452
35°	9241	8362	8133
40°	9013	8038	7812
45°	8754	7757	7523
50°	8507	7452	7263
55°	8210	7161	6960
60°	7884	6830	6649
65°	7543	6479	6301
70°	7152	6011	5936
75°	6539	5549	5492
80°	5729	4988	5002
85°	4934	4538	4743

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 8754 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	1.7
10°-20°	430.0	4.7
20°-30°	639.5	7.0
30°-40°	757.3	8.3
40°-50°	782.9	8.6
50°-60°	721.2	7.9
60°-70°	583.0	6.4
70°-80°	390.1	4.3
80°-90°	204.0	2.2
90°-100°	213.2	2.3
100°-110°	379.8	4.2
110°-120°	558.2	6.1
120°-130°	692.7	7.6
130°-140°	754.6	8.3
140°-150°	728.8	8.0
150°-160°	609.9	6.7
160°-170°	405.4	4.4
170°-180°	141.9	1.6
0°-30°	1221.0	13.4
0°-40°	1978.3	21.6
0°-60°	3482.4	38.1
0°-90°	4659.6	51.0
90°-120°	1151.2	12.6
90°-150°	3327.3	36.4
90°-180°	4484.0	49.0
0°-180°	9144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1601	1601	1601	1601	1601	
5°	1601	1598	1587	1599	1598	152
15°	1529	1530	1519	1529	1522	431
25°	1389	1394	1384	1390	1383	639
35°	1202	1213	1208	1213	1213	753
45°	990	1008	1015	1026	1028	764
55°	761	786	811	829	835	680
65°	524	560	598	622	628	520
75°	289	330	380	411	419	306
85°	86	138	193	228	240	90
90°	26	86	147	189	204	23
95°	96	139	204	247	260	95
105°	280	311	365	403	418	299
115°	512	528	571	598	606	507
125°	740	745	778	801	807	663
135°	957	963	975	995	998	738
145°	1157	1160	1164	1172	1174	723
155°	1323	1323	1324	1328	1323	609
165°	1438	1436	1437	1442	1434	406
175°	1495	1490	1490	1498	1489	142
180°	1499	1499	1499	1499	1499	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1600.8	1600.8	1600.8	1600.8	1600.8
2.5°	1605.5	1602.4	1591.4	1602.4	1600.8
5°	1600.8	1597.7	1586.7	1599.2	1597.7
7.5°	1589.8	1588.2	1577.3	1588.2	1586.7
10°	1574.1	1574.1	1561.6	1572.6	1571.0
12.5°	1552.1	1553.7	1544.3	1552.1	1547.4
15°	1528.6	1530.2	1519.2	1528.6	1522.3
17.5°	1498.8	1501.9	1490.9	1498.8	1494.1
20°	1465.8	1469.0	1458.0	1462.7	1462.7
22.5°	1428.2	1434.4	1421.9	1428.2	1423.5
25°	1388.9	1393.6	1384.2	1390.5	1382.7
27.5°	1346.6	1352.8	1341.8	1346.6	1343.4
30°	1297.9	1307.3	1297.9	1301.0	1299.5
32.5°	1254.0	1261.8	1255.5	1258.7	1257.1
35°	1202.2	1213.2	1208.4	1213.2	1213.2
37.5°	1151.9	1161.4	1159.8	1166.1	1164.5
40°	1100.2	1112.7	1111.1	1117.4	1120.6
42.5°	1043.7	1060.9	1065.6	1073.5	1073.5
45°	990.3	1007.6	1015.4	1026.4	1028.0
47.5°	935.4	951.1	963.6	979.3	982.5
50°	878.9	896.1	913.4	930.7	935.4
52.5°	819.2	841.2	863.2	882.0	885.1
55°	761.2	786.3	811.4	828.6	834.9
57.5°	701.5	731.3	759.6	778.4	783.1
60°	641.9	673.3	704.7	728.2	732.9
62.5°	583.8	615.2	649.7	676.4	682.7
65°	524.2	560.3	597.9	621.5	627.8
67.5°	469.3	503.8	541.4	569.7	577.5
70°	408.0	444.1	484.9	514.8	524.2
72.5°	348.4	386.1	431.6	464.5	470.8
75°	288.8	329.6	379.8	411.2	419.0
77.5°	230.7	277.8	324.9	359.4	365.7
80°	177.3	224.4	277.8	312.3	318.6
82.5°	128.7	178.9	233.8	266.8	279.4
85°	86.3	138.1	193.0	227.6	240.1
87.5°	54.9	105.2	158.5	194.6	205.6
90°	26.3	85.8	147.4	189.3	203.8
92.5°	57.0	108.3	173.7	216.4	229.7
95°	96.2	139.3	204.4	247.1	260.4
97.5°	135.4	174.3	242.4	282.3	294.5
100°	180.6	213.5	278.8	322.3	334.1
102.5°	229.1	264.8	319.3	362.4	375.3
105°	280.0	310.9	365.0	403.4	417.9
107.5°	335.7	363.4	414.7	449.6	459.0
110°	393.5	418.2	465.7	499.0	508.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	454.2	470.6	517.7	547.1	555.7
115°	512.1	527.7	570.9	598.0	606.2
117.5°	571.1	580.2	621.7	649.6	655.9
120°	627.1	637.7	675.0	701.6	706.3
122.5°	686.2	688.9	727.0	750.9	756.8
125°	739.9	745.3	777.9	800.6	807.4
127.5°	797.8	799.7	827.5	850.0	857.0
130°	850.3	854.5	878.8	899.7	905.1
132.5°	901.1	911.6	926.2	947.0	949.8
135°	957.1	962.6	974.8	995.2	998.3
137.5°	1009.6	1015.1	1023.6	1043.7	1044.2
140°	1058.2	1064.1	1069.1	1088.7	1089.2
142.5°	1108.4	1111.5	1116.1	1131.4	1131.9
145°	1157.4	1160.4	1163.9	1171.7	1174.5
147.5°	1201.3	1204.8	1207.1	1213.7	1207.6
150°	1246.8	1245.6	1250.3	1250.3	1249.5
152.5°	1284.1	1286.4	1287.6	1291.1	1286.4
155°	1322.6	1322.6	1323.7	1328.4	1322.6
157.5°	1357.6	1355.2	1356.4	1361.0	1352.9
160°	1387.9	1384.4	1385.5	1390.2	1384.4
162.5°	1414.7	1412.4	1412.4	1418.2	1411.2
165°	1438.0	1435.7	1436.9	1441.5	1434.5
167.5°	1459.0	1454.4	1454.4	1461.3	1454.4
170°	1475.3	1470.7	1470.7	1477.7	1469.5
172.5°	1487.0	1482.3	1482.3	1489.3	1482.3
175°	1495.2	1490.5	1490.5	1497.5	1489.3
177.5°	1501.0	1496.3	1495.2	1502.2	1494.0
180°	1498.7	1498.7	1498.7	1498.7	1498.7

(END OF REPORT)