

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: P1027547

Luminaire Tested: S125DIP-B1270D1090UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027547
REPORT IS A COMBINATION OF REPORTS P1001555 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1090UB35-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

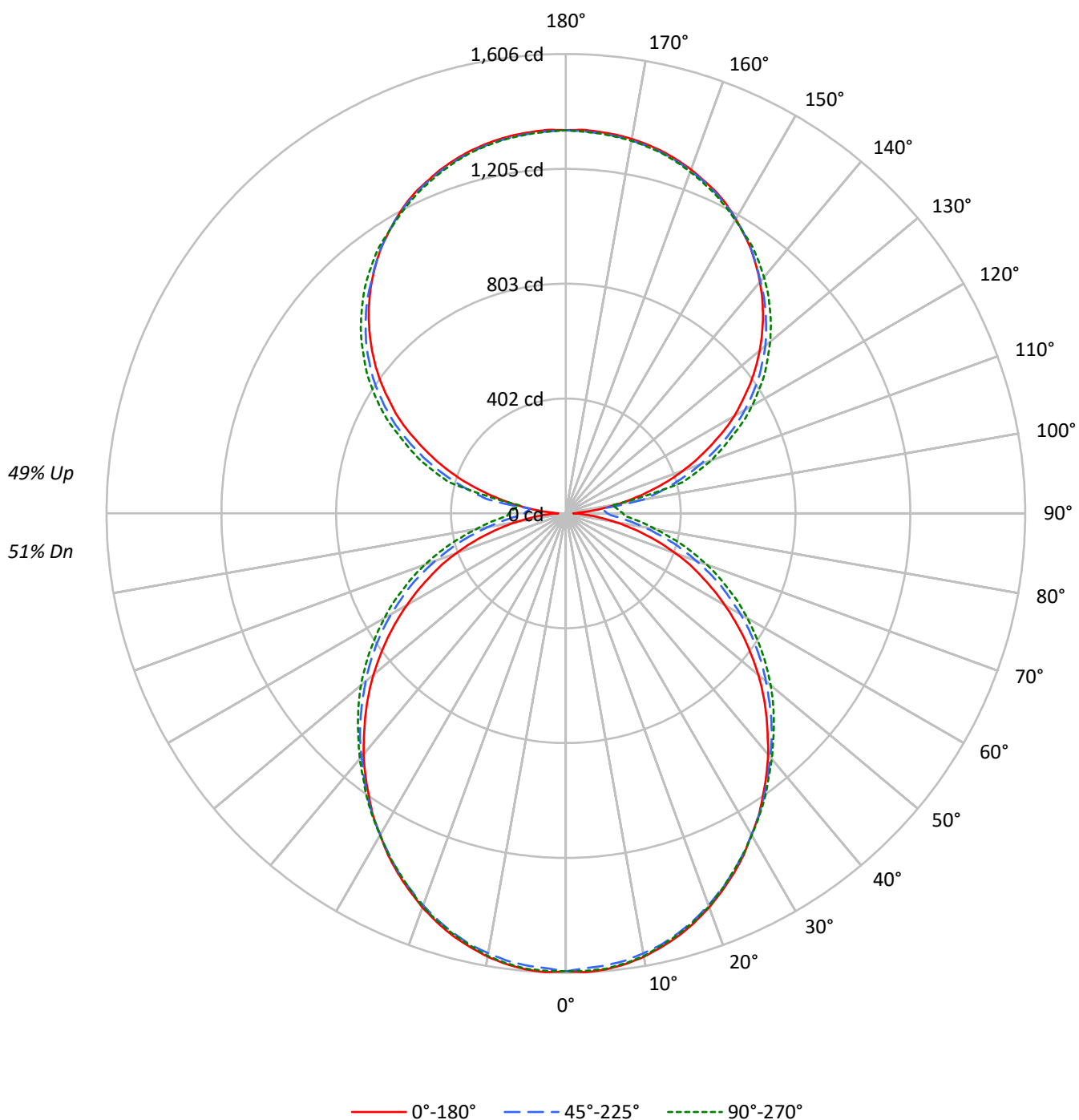
Lumens per Lamp: N/A
Luminaire Lumens: 9075.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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

TEST NUMBER: P1027547

CATALOG NUMBER: S125DIP-B1270D1090UB35-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1027547

CATALOG NUMBER: S125DIP-B1270D1090UB35-4F0-XX-W2A-D

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
RCR																	
0	107	107	107	107	99	99	99	99	84	84	84		70	70	70		57
1	97	93	88	85	90	86	82	79	73	70	67		61	59	57		49
2	88	80	74	69	81	74	69	64	63	59	55		53	50	47		43
3	80	70	63	57	74	65	59	53	55	50	46		46	43	39		38
4	73	62	54	48	67	58	50	45	49	44	39		41	37	34		34
5	67	55	47	41	62	51	44	38	44	38	34		37	32	29		30
6	62	50	41	35	57	46	39	33	39	34	29		33	29	25		27
7	57	45	37	31	53	42	34	29	36	30	26		30	26	22		25
8	53	41	33	27	49	38	31	26	33	27	23		28	23	20		23
9	49	37	29	24	46	35	28	23	30	24	20		25	21	18		21
10	46	34	27	22	43	32	25	21	27	22	18		23	19	16		20

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

TEST NUMBER: P1027547

CATALOG NUMBER: S125DIP-B1270D1090UB35-4F0-XX-W2A-D

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°	203.6	2.2
90°-100°	159.0	1.8
100°-110°	386.0	4.3
110°-120°	600.4	6.6
120°-130°	730.4	8.0
130°-140°	765.3	8.4
140°-150°	708.0	7.8
150°-160°	570.5	6.3
160°-170°	368.9	4.1
170°-180°	127.2	1.4
0°-30°	1221.0	13.5
0°-40°	1978.3	21.8
0°-60°	3482.4	38.4
0°-90°	4659.2	51.3
90°-120°	1145.4	12.6
90°-150°	3349.1	36.9
90°-180°	4416.0	48.7
0°-180°	9075.0	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	84	145	186	200	20
95°	77	115	130	170	181	85
105°	306	335	382	414	424	324
115°	557	573	615	640	643	553
125°	786	791	822	844	848	701
135°	975	980	988	1007	1009	752
145°	1128	1129	1129	1138	1138	705
155°	1241	1235	1237	1240	1232	572
165°	1310	1304	1304	1310	1303	370
175°	1339	1333	1334	1342	1333	128
180°	1339	1339	1339	1339	1339	

TEST NUMBER: P1027547

CATALOG NUMBER: S125DIP-B1270D1090UB35-4F0-XX-W2A-D

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°	26.1	84.2	144.6	185.6	199.6
92.5°	40.9	77.4	138.3	177.7	189.7
95°	77.0	114.8	130.5	169.9	180.9
97.5°	125.0	168.7	126.2	161.1	173.0
100°	183.1	219.0	273.1	158.2	163.6
102.5°	242.1	275.8	326.5	359.9	285.9
105°	306.0	335.1	382.2	413.6	423.6
107.5°	372.0	393.9	441.4	473.8	479.2
110°	435.9	454.7	500.7	527.5	539.5

TEST NUMBER: P1027547

CATALOG NUMBER: S125DIP-B1270D1090UB35-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	497.5	514.6	557.9	582.2	591.2
115°	557.4	573.4	615.2	639.5	643.0
117.5°	620.4	628.3	671.4	692.2	701.2
120°	679.9	683.7	722.8	747.4	751.9
122.5°	731.0	737.5	773.1	796.2	799.7
125°	785.6	791.0	822.4	843.5	848.4
127.5°	836.7	840.0	865.7	887.4	888.8
130°	884.3	887.7	910.7	929.7	932.5
132.5°	930.4	936.3	949.1	971.1	972.4
135°	975.1	979.5	988.5	1006.9	1008.8
137.5°	1016.8	1021.2	1025.4	1044.3	1045.7
140°	1056.0	1057.9	1058.4	1077.7	1078.1
142.5°	1092.7	1092.1	1094.1	1108.2	1108.5
145°	1128.4	1128.8	1128.8	1137.6	1138.0
147.5°	1158.6	1158.6	1159.6	1163.7	1159.9
150°	1188.4	1186.4	1188.4	1190.4	1184.0
152.5°	1217.2	1212.2	1214.2	1216.2	1209.2
155°	1241.0	1235.0	1237.0	1240.0	1232.1
157.5°	1259.9	1256.9	1256.9	1259.9	1251.9
160°	1279.7	1273.8	1274.8	1278.7	1270.8
162.5°	1295.6	1289.6	1290.6	1296.6	1287.7
165°	1309.5	1303.5	1304.5	1310.5	1302.6
167.5°	1320.4	1314.5	1315.5	1322.4	1313.5
170°	1329.4	1322.4	1323.4	1331.3	1322.4
172.5°	1335.3	1328.4	1330.4	1337.3	1328.4
175°	1339.3	1333.3	1334.3	1342.3	1333.3
177.5°	1342.3	1336.3	1337.3	1344.3	1336.3
180°	1339.3	1339.3	1339.3	1339.3	1339.3

(END OF REPORT)