

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: P1027548

Luminaire Tested: S125DIP-B1270D1090UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027548
REPORT IS A COMBINATION OF REPORTS P1001556 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-D1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

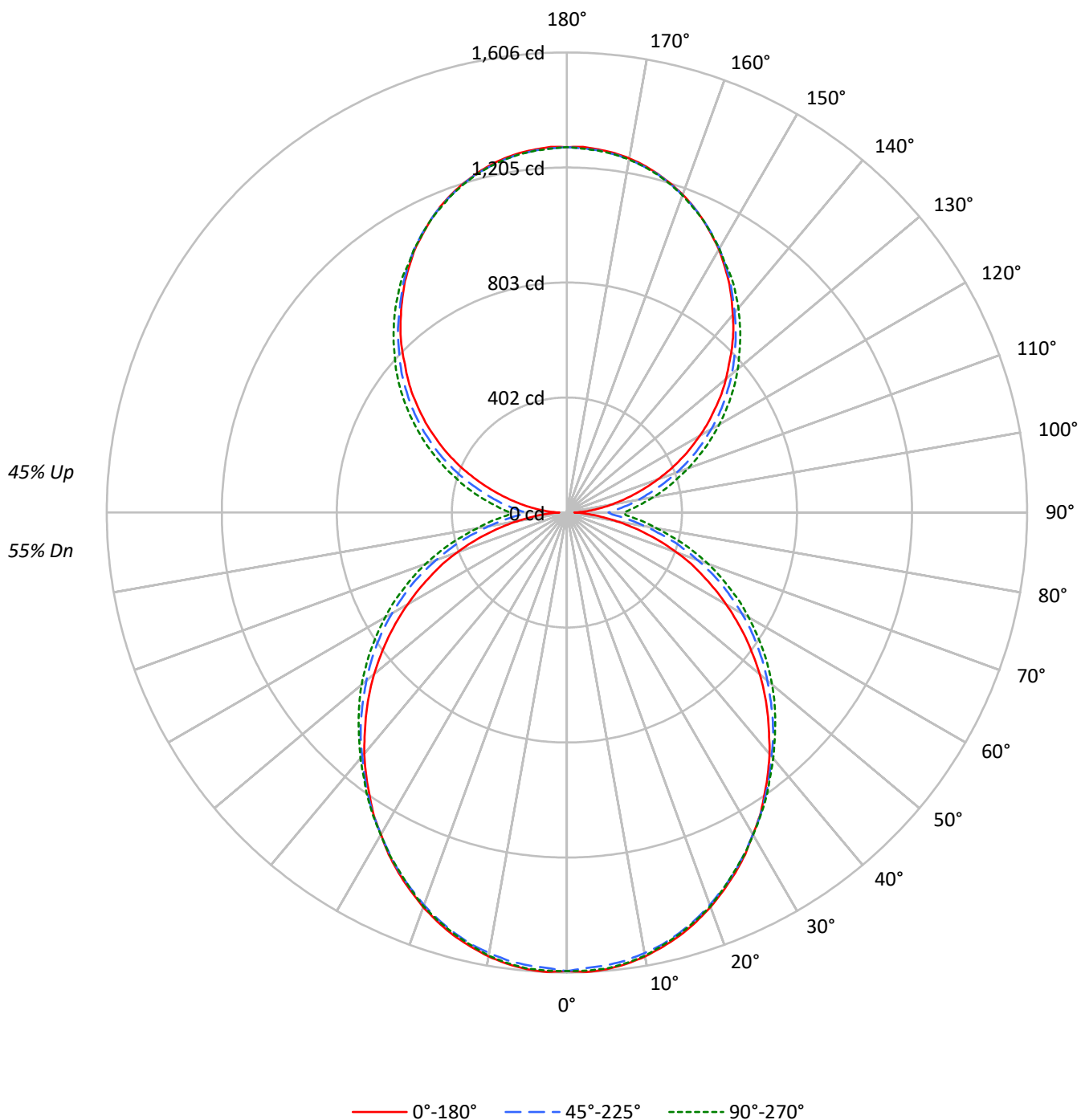
Lumens per Lamp: N/A
Luminaire Lumens: 8521.0 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	73	73	73	60	60	60
1	98	93	89	85	91	87	83	80	74	71	69	63	61	59	52	51	49
2	89	81	75	69	82	75	70	65	65	60	56	55	51	49	45	43	41
3	81	71	63	57	75	66	59	54	57	51	47	48	44	41	40	37	35
4	74	63	54	48	68	58	51	45	50	44	40	43	38	35	36	32	30
5	68	56	47	41	63	52	44	39	45	39	34	38	34	30	32	28	26
6	62	50	42	36	58	47	39	34	40	34	30	34	30	26	29	25	22
7	58	45	37	31	53	42	35	29	37	31	26	31	27	23	26	23	20
8	54	41	33	27	50	38	31	26	33	27	23	29	24	21	24	21	18
9	50	37	30	24	46	35	28	23	31	25	21	26	22	18	22	19	16
10	47	34	27	22	43	32	25	21	28	23	19	24	20	17	21	17	15

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	1.8
10°-20°	430.0	5.0
20°-30°	639.5	7.5
30°-40°	757.3	8.9
40°-50°	782.9	9.2
50°-60°	721.2	8.5
60°-70°	583.0	6.8
70°-80°	390.1	4.6
80°-90°	203.6	2.4
90°-100°	198.4	2.3
100°-110°	335.7	3.9
110°-120°	483.4	5.7
120°-130°	594.3	7.0
130°-140°	644.3	7.6
140°-150°	620.7	7.3
150°-160°	519.1	6.1
160°-170°	345.0	4.0
170°-180°	120.7	1.4
0°-30°	1221.0	14.3
0°-40°	1978.3	23.2
0°-60°	3482.4	40.9
0°-90°	4659.2	54.7
90°-120°	1017.5	11.9
90°-150°	2876.9	33.8
90°-180°	3862.0	45.3
0°-180°	8521.0	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	22
95°	85	128	191	232	246	84
105°	240	270	324	361	375	256
115°	437	452	495	522	531	433
125°	631	635	667	690	698	565
135°	815	820	832	852	856	628
145°	985	988	991	998	1002	616
155°	1126	1126	1127	1131	1126	519
165°	1224	1222	1223	1227	1221	345
175°	1273	1269	1269	1275	1268	121
180°	1276	1276	1276	1276	1276	

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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°	26.1	84.2	144.6	185.6	199.6
92.5°	51.8	102.2	166.1	207.5	220.5
95°	84.9	127.7	191.0	232.5	245.5
97.5°	118.1	156.8	222.5	261.3	273.3
100°	156.3	189.2	252.3	294.2	305.6
102.5°	197.4	232.1	285.8	327.1	339.5
105°	240.4	270.5	323.5	360.9	374.9
107.5°	287.6	314.4	364.9	399.3	408.7
110°	336.6	360.4	407.3	440.1	450.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	388.2	404.3	450.7	479.9	488.9
115°	437.2	452.2	495.0	522.3	530.7
117.5°	487.3	496.1	537.3	565.0	572.1
120°	534.9	544.7	581.8	608.4	613.8
122.5°	585.0	587.5	625.1	649.2	655.6
125°	630.7	635.0	667.4	690.5	697.5
127.5°	679.7	681.1	708.8	731.4	738.8
130°	724.4	727.7	751.7	772.7	778.6
132.5°	767.4	776.4	791.1	812.1	815.4
135°	815.1	819.6	831.5	851.9	855.8
137.5°	859.8	864.2	872.4	892.3	893.6
140°	901.0	905.9	910.4	929.7	931.0
142.5°	943.6	946.0	950.0	965.1	966.4
145°	985.3	987.7	990.7	998.5	1001.8
147.5°	1022.4	1025.4	1027.4	1033.5	1028.7
150°	1061.2	1060.2	1064.1	1064.1	1063.7
152.5°	1092.9	1094.9	1095.9	1098.9	1094.9
155°	1125.7	1125.7	1126.7	1130.6	1125.7
157.5°	1155.5	1153.5	1154.5	1158.4	1151.5
160°	1181.3	1178.3	1179.3	1183.3	1178.3
162.5°	1204.1	1202.1	1202.1	1207.1	1201.1
165°	1224.0	1222.0	1223.0	1226.9	1221.0
167.5°	1241.8	1237.8	1237.8	1243.8	1237.8
170°	1255.7	1251.7	1251.7	1257.7	1250.8
172.5°	1265.6	1261.7	1261.7	1267.6	1261.7
175°	1272.6	1268.6	1268.6	1274.6	1267.6
177.5°	1277.6	1273.6	1272.6	1278.5	1271.6
180°	1275.6	1275.6	1275.6	1275.6	1275.6

(END OF REPORT)