

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: P1027510

Luminaire Tested: S125DIP-B1090D850UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027510
REPORT IS A COMBINATION OF REPORTS P1001500 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D850UB35-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

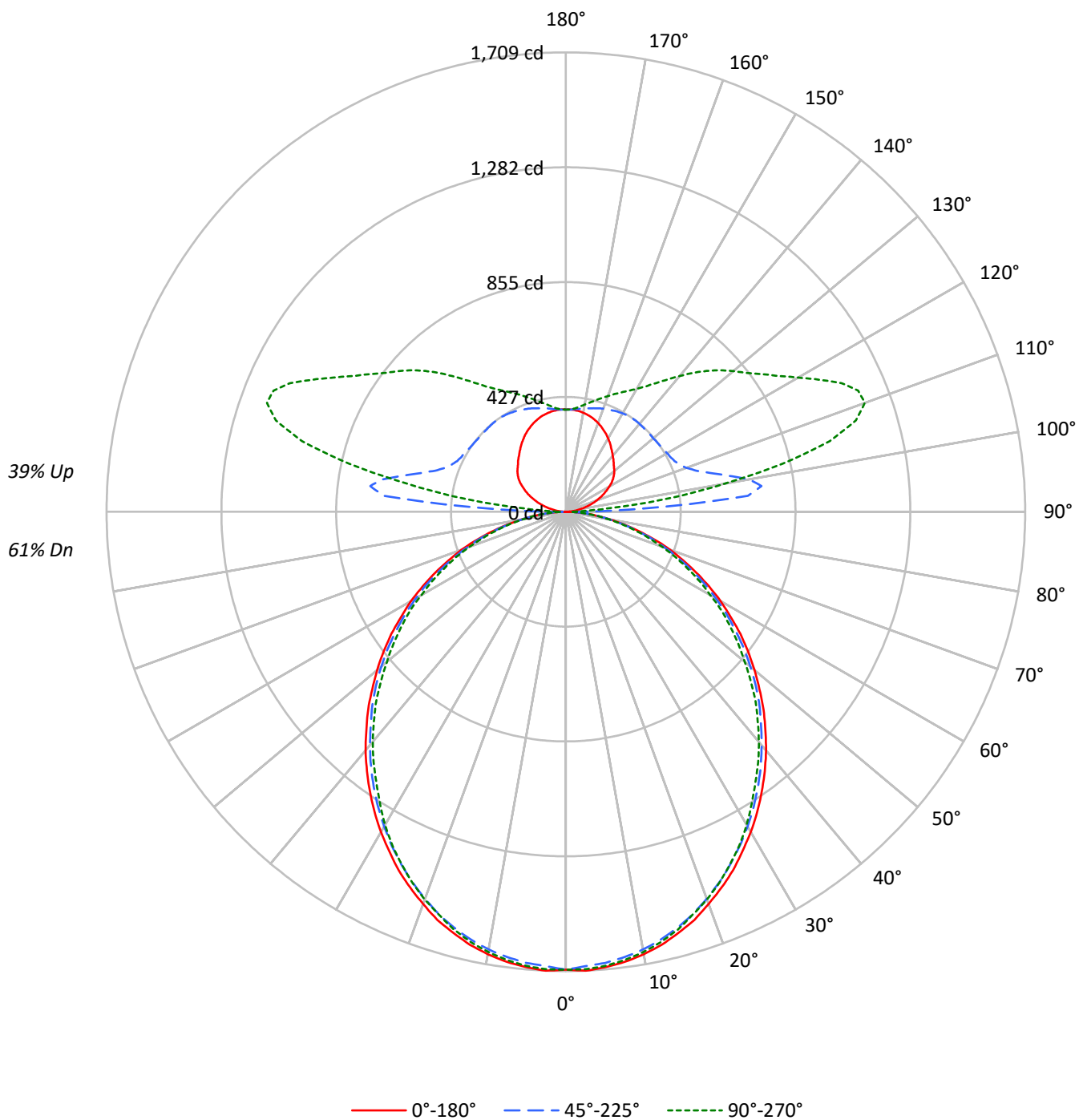
Lumens per Lamp: N/A
Luminaire Lumens: 7298.8 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 67.9
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66
1	100	96	92	88	93	90	86	83	78	76	73	68	66	64	58	57	56
2	91	84	77	72	85	78	73	68	69	64	61	60	56	54	51	49	47
3	83	73	66	60	77	69	62	57	60	55	51	53	49	45	45	42	40
4	76	65	57	51	71	61	54	48	54	48	43	47	42	39	41	37	34
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	37	33	30
6	64	52	44	38	60	49	42	36	43	37	33	38	33	30	33	29	26
7	60	47	39	33	56	44	37	32	39	33	29	35	30	26	30	26	23
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10915	10915	10915
5°	10916	10662	10682
10°	10825	10417	10384
15°	10683	10125	10034
20°	10491	9786	9632
25°	10285	9416	9202
30°	10036	9031	8749
35°	9769	8627	8241
40°	9495	8200	7789
45°	9198	7784	7309
50°	8871	7313	6750
55°	8547	6792	6235
60°	8162	6243	5637
65°	7700	5608	5018
70°	7229	4878	4305
75°	6440	4017	3480
80°	5487	3000	2560
85°	4237	1775	1410

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9198 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	2.2
10°-20°	454.1	6.2
20°-30°	670.4	9.2
30°-40°	782.1	10.7
40°-50°	785.5	10.8
50°-60°	689.5	9.4
60°-70°	513.6	7.0
70°-80°	293.3	4.0
80°-90°	86.2	1.2
90°-100°	286.5	3.9
100°-110°	595.1	8.2
110°-120°	555.8	7.6
120°-130°	449.8	6.2
130°-140°	361.4	5.0
140°-150°	272.8	3.7
150°-160°	192.1	2.6
160°-170°	113.2	1.6
170°-180°	36.8	0.5
0°-30°	1285.2	17.6
0°-40°	2067.3	28.3
0°-60°	3542.4	48.5
0°-90°	4435.5	60.8
90°-120°	1437.4	19.7
90°-150°	2521.3	34.5
90°-180°	2863.0	39.2
0°-180°	7298.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1704	1704	1704	1704	1704	
5°	1701	1698	1685	1697	1696	161
15°	1621	1617	1602	1609	1609	457
25°	1472	1465	1448	1450	1446	677
35°	1271	1266	1247	1240	1229	795
45°	1040	1035	1019	1003	999	802
55°	792	788	770	757	748	707
65°	535	532	518	505	500	531
75°	284	282	275	271	266	303
85°	74	76	76	74	71	81
90°	1	7	12	16	18	7
95°	25	75	680	308	180	26
105°	87	121	556	1095	1016	91
115°	155	187	446	962	1132	153
125°	215	252	428	766	892	191
135°	252	302	425	642	741	195
145°	293	336	426	531	584	184
155°	334	360	416	470	490	154
165°	365	375	399	423	430	103
175°	380	380	383	387	386	36
180°	380	380	380	380	380	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1703.6	1703.6	1703.6	1703.6	1703.6
2.5°	1709.0	1704.9	1691.5	1704.9	1703.6
5°	1700.9	1698.2	1684.7	1696.8	1695.5
7.5°	1688.8	1686.1	1671.2	1683.4	1682.0
10°	1671.2	1668.5	1653.7	1664.5	1663.1
12.5°	1649.7	1644.3	1630.8	1638.9	1638.9
15°	1621.4	1617.3	1602.5	1609.2	1609.2
17.5°	1591.7	1585.0	1570.2	1578.2	1571.5
20°	1552.6	1549.9	1532.4	1541.8	1535.1
22.5°	1513.5	1508.2	1492.0	1497.4	1493.3
25°	1471.8	1465.0	1447.5	1450.2	1446.2
27.5°	1423.2	1419.2	1401.7	1403.0	1399.0
30°	1376.1	1372.0	1351.8	1349.1	1345.1
32.5°	1324.9	1318.1	1300.6	1295.2	1287.1
35°	1270.9	1265.6	1246.7	1239.9	1229.2
37.5°	1215.7	1208.9	1191.4	1182.0	1175.3
40°	1159.1	1152.3	1133.5	1121.3	1117.3
42.5°	1098.4	1093.0	1074.2	1063.4	1056.7
45°	1040.5	1035.1	1018.9	1002.7	998.7
47.5°	977.1	978.5	958.3	942.1	932.7
50°	916.5	912.4	896.3	878.7	869.3
52.5°	854.5	851.8	834.3	819.4	808.7
55°	792.5	788.4	769.6	757.4	748.0
57.5°	726.4	725.1	708.9	692.8	688.7
60°	664.5	659.1	644.2	630.8	621.3
62.5°	599.8	595.7	583.6	568.8	562.0
65°	535.1	532.4	517.5	505.4	500.0
67.5°	471.7	466.3	455.5	444.8	442.1
70°	412.4	405.7	393.5	385.5	380.1
72.5°	347.7	343.7	336.9	327.5	322.1
75°	284.4	281.7	274.9	270.9	265.5
77.5°	225.1	223.7	219.7	217.0	212.9
80°	169.8	169.8	167.1	165.8	163.1
82.5°	121.3	118.6	118.6	115.9	115.9
85°	74.1	75.5	75.5	74.1	71.4
87.5°	36.4	36.4	35.0	35.0	32.3
90°	0.8	6.9	12.3	16.1	17.6
92.5°	11.5	62.9	306.0	81.7	56.8
95°	25.3	74.8	679.6	308.4	180.2
97.5°	39.1	80.9	734.0	556.8	395.0
100°	53.7	92.8	692.6	787.0	598.3
102.5°	69.8	106.2	619.8	981.8	825.3
105°	86.7	121.2	556.1	1094.9	1016.3
107.5°	102.8	136.9	508.5	1126.8	1131.4
110°	120.4	153.4	477.1	1096.5	1183.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.1	169.9	458.7	1033.2	1177.4
115°	154.9	186.8	446.4	962.2	1132.1
117.5°	170.3	204.0	439.5	897.8	1063.9
120°	185.6	220.5	434.9	843.8	997.9
122.5°	201.7	236.6	431.1	800.3	939.6
125°	214.8	251.6	428.0	765.5	892.0
127.5°	225.5	266.2	426.5	735.6	848.3
130°	235.5	280.0	424.9	705.2	813.8
132.5°	243.1	292.2	424.9	672.7	779.3
135°	251.6	302.5	424.9	641.6	740.9
137.5°	262.3	312.2	425.7	609.0	701.1
140°	271.5	320.2	426.5	579.1	658.9
142.5°	282.3	327.9	427.2	553.4	619.8
145°	293.0	335.5	426.5	531.2	584.5
147.5°	304.5	342.4	424.9	512.0	553.0
150°	314.5	348.6	422.6	496.3	527.7
152.5°	325.2	354.8	419.6	482.8	507.8
155°	334.4	359.8	415.7	469.8	490.1
157.5°	342.9	364.7	411.9	457.6	474.0
160°	351.3	368.6	408.1	445.2	457.9
162.5°	358.2	372.4	403.5	434.1	443.3
165°	365.1	375.1	398.8	423.0	429.5
167.5°	369.7	376.6	394.2	412.6	416.5
170°	374.3	378.5	390.4	402.7	405.0
172.5°	377.4	379.3	385.8	394.6	394.2
175°	379.7	379.7	382.7	387.3	385.8
177.5°	381.2	379.7	380.4	382.7	380.4
180°	380.4	380.4	380.4	380.4	380.4

(END OF REPORT)