

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: P1027508

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027508
REPORT IS A COMBINATION OF REPORTS P1001498 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-F
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

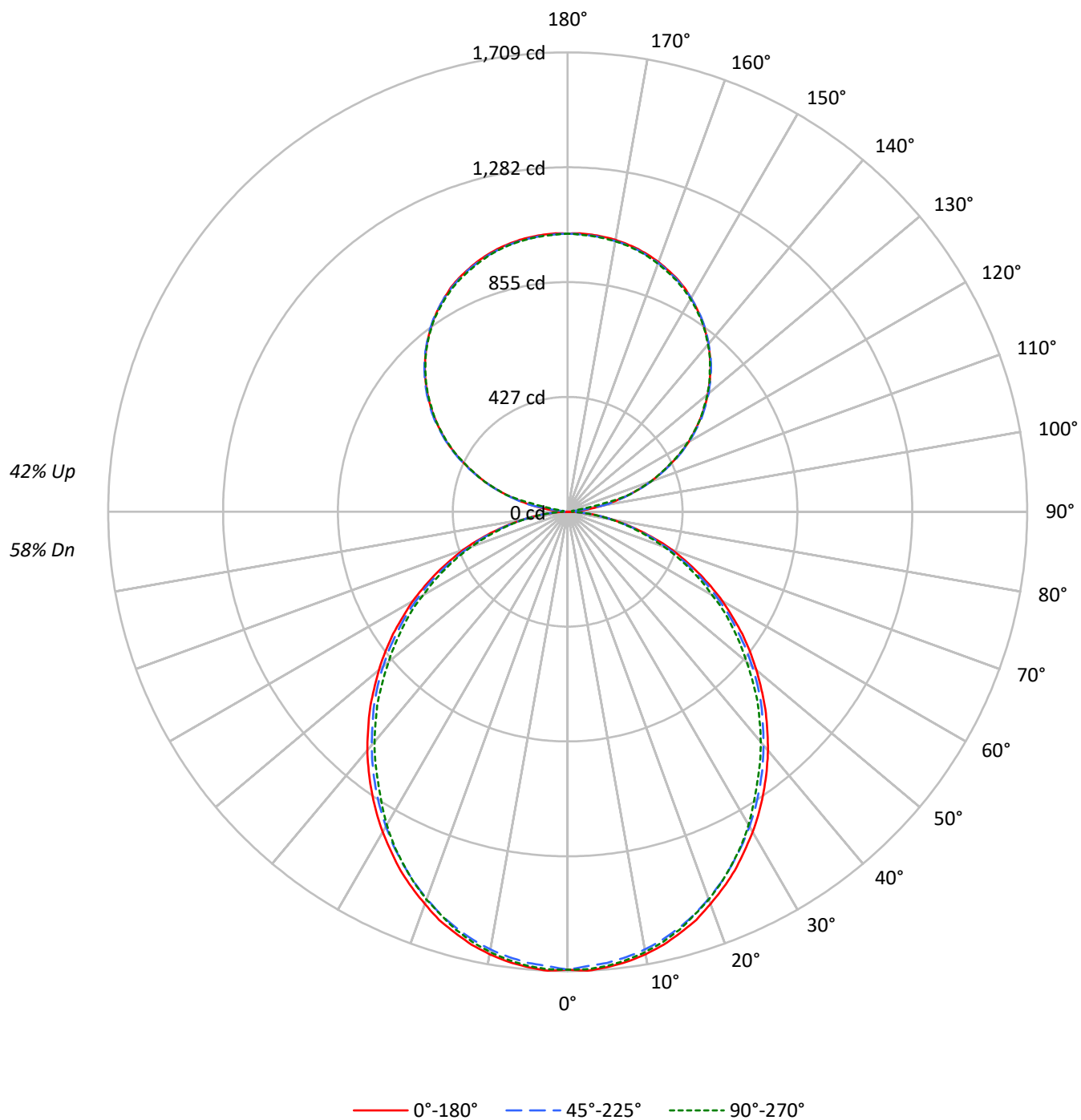
Lumens per Lamp: N/A
Luminaire Lumens: 7614.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64
1	100	95	91	88	93	89	85	82	77	74	72	66	64	63	56	55	54
2	91	83	77	72	84	78	72	67	67	63	60	58	55	52	49	47	45
3	83	73	66	60	77	68	62	56	60	54	50	51	47	44	44	41	38
4	76	65	57	50	70	61	53	48	53	47	43	46	41	38	39	36	33
5	69	58	49	43	65	54	47	41	47	41	37	41	36	33	35	32	29
6	64	52	43	38	59	49	41	36	43	37	32	37	32	29	32	28	25
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20
9	51	39	31	26	48	37	30	25	32	27	23	29	24	20	25	21	18
10	48	36	28	23	45	34	27	22	30	24	20	26	22	19	23	19	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	2.1
10°-20°	454.1	6.0
20°-30°	670.4	8.8
30°-40°	782.1	10.3
40°-50°	785.5	10.3
50°-60°	689.5	9.1
60°-70°	513.6	6.7
70°-80°	293.3	3.9
80°-90°	86.2	1.1
90°-100°	35.1	0.5
100°-110°	233.5	3.1
110°-120°	420.5	5.5
120°-130°	539.8	7.1
130°-140°	580.6	7.6
140°-150°	544.9	7.2
150°-160°	440.7	5.8
160°-170°	285.0	3.7
170°-180°	98.3	1.3
0°-30°	1285.2	16.9
0°-40°	2067.3	27.2
0°-60°	3542.4	46.5
0°-90°	4435.5	58.3
90°-120°	689.2	9.1
90°-150°	2354.4	30.9
90°-180°	3178.0	41.7
0°-180°	7614.0	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°	44	41	12	16	16	54
105°	226	229	229	229	228	239
115°	423	427	428	425	420	420
125°	602	608	608	604	602	538
135°	751	756	754	752	748	579
145°	871	872	872	873	868	544
155°	959	954	956	958	952	442
165°	1012	1007	1008	1012	1006	286
175°	1035	1030	1031	1037	1030	99
180°	1035	1035	1035	1035	1035	

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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	18.4
92.5°	14.6	7.7	12.3	16.1	16.9
95°	43.7	41.4	12.3	16.1	16.1
97.5°	82.1	86.7	13.8	15.3	16.1
100°	128.1	130.4	133.5	19.2	16.1
102.5°	174.9	178.0	179.5	181.0	116.6
105°	225.5	228.6	228.6	228.6	227.8
107.5°	277.7	277.7	279.2	280.0	276.9
110°	328.3	328.3	329.8	327.5	328.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	375.8	378.1	378.9	375.8	374.3
115°	423.4	427.2	428.0	424.9	420.3
117.5°	473.3	473.3	476.3	471.7	470.2
120°	519.3	518.5	520.8	519.3	515.4
122.5°	559.9	563.8	564.5	563.0	558.4
125°	602.1	607.5	607.5	604.4	602.1
127.5°	642.8	646.6	645.8	644.3	638.2
130°	679.6	683.4	684.2	681.9	678.1
132.5°	716.4	721.0	718.7	718.7	714.9
135°	750.9	755.5	754.0	752.5	747.9
137.5°	783.1	787.7	786.2	786.2	782.4
140°	814.6	816.1	815.4	816.9	812.3
142.5°	843.0	843.7	845.3	845.3	840.7
145°	870.6	872.1	872.1	872.9	868.3
147.5°	895.1	895.1	895.9	896.7	891.3
150°	918.1	916.6	918.1	919.7	913.5
152.5°	940.4	936.5	938.1	939.6	934.2
155°	958.8	954.2	955.7	958.0	951.9
157.5°	973.4	971.1	971.1	973.4	967.2
160°	988.7	984.1	984.9	987.9	981.8
162.5°	1001.0	996.4	997.1	1001.7	994.8
165°	1011.7	1007.1	1007.9	1012.5	1006.3
167.5°	1020.2	1015.6	1016.3	1021.7	1014.8
170°	1027.1	1021.7	1022.5	1028.6	1021.7
172.5°	1031.7	1026.3	1027.8	1033.2	1026.3
175°	1034.7	1030.1	1030.9	1037.0	1030.1
177.5°	1037.0	1032.4	1033.2	1038.6	1032.4
180°	1034.7	1034.7	1034.7	1034.7	1034.7

(END OF REPORT)