

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: P1027375

Luminaire Tested: S125DIP-B1090D1270UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027375
REPORT IS A COMBINATION OF REPORTS P1001320 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1270UB35-4F0-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

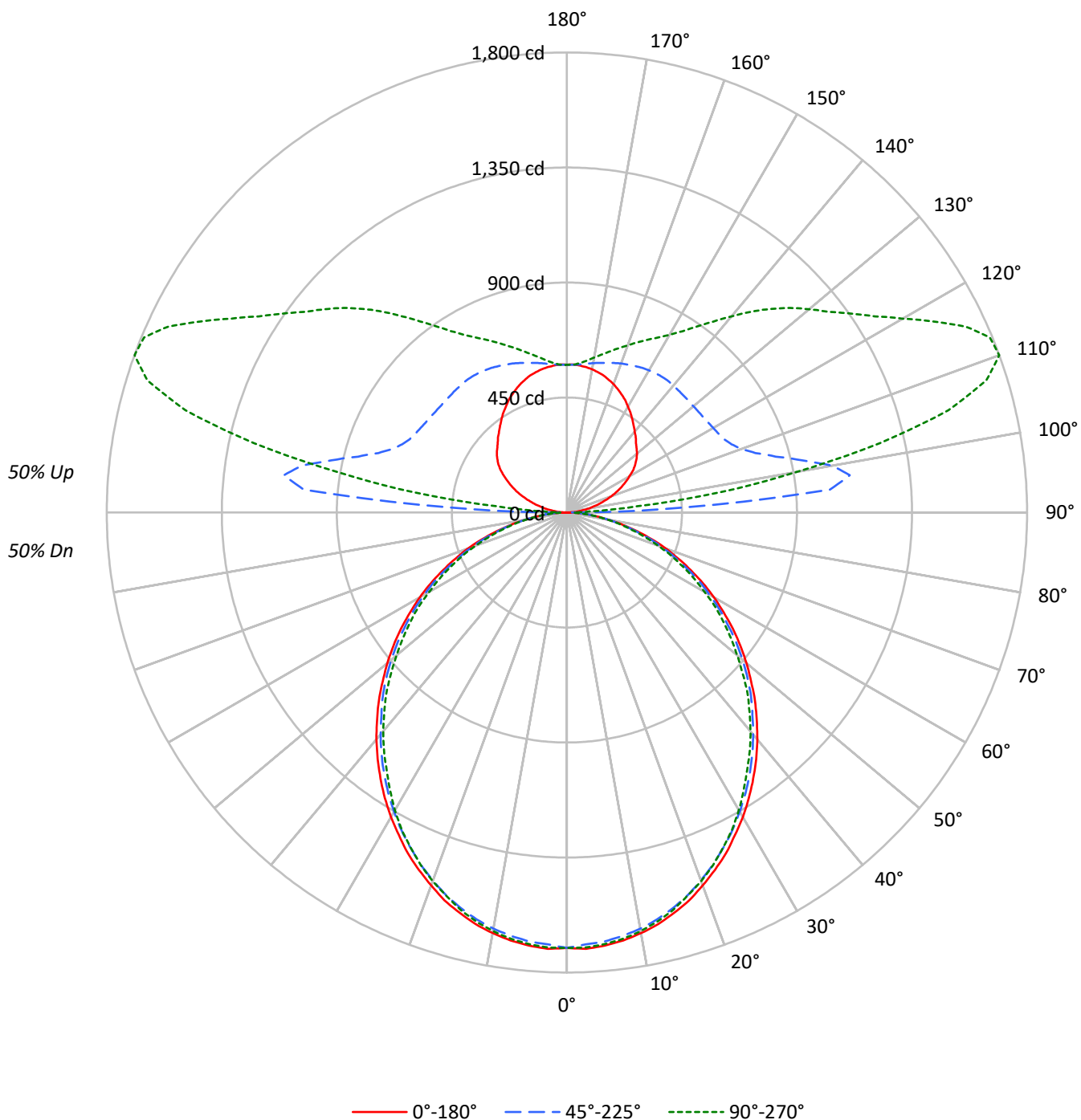
Lumens per Lamp: N/A
Luminaire Lumens: 8789.9 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	57	57	57
1	98	93	90	86	90	86	83	80	73	71	69	61	59	58	50	49	48
2	89	82	75	70	82	76	70	66	64	60	57	54	51	48	44	42	40
3	81	72	64	58	75	66	60	55	57	52	48	47	44	41	39	36	34
4	74	63	55	49	68	59	52	46	50	45	41	42	38	35	35	32	29
5	68	57	48	42	63	52	45	40	45	39	35	38	34	30	31	28	26
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	23	20
8	54	42	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	19	16
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15

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	1.8
10°-20°	454.1	5.2
20°-30°	670.4	7.6
30°-40°	782.1	8.9
40°-50°	785.5	8.9
50°-60°	689.5	7.8
60°-70°	513.6	5.8
70°-80°	293.3	3.3
80°-90°	87.0	1.0
90°-100°	435.6	5.0
100°-110°	904.8	10.3
110°-120°	845.1	9.6
120°-130°	683.8	7.8
130°-140°	549.4	6.3
140°-150°	414.7	4.7
150°-160°	292.0	3.3
160°-170°	172.1	2.0
170°-180°	56.0	0.6
0°-30°	1285.2	14.6
0°-40°	2067.3	23.5
0°-60°	3542.4	40.3
0°-90°	4436.3	50.5
90°-120°	2185.5	24.9
90°-150°	3833.5	43.6
90°-180°	4354.0	49.5
0°-180°	8789.9	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	10	19	24	27	8
95°	38	114	1033	469	274	40
105°	132	184	846	1665	1545	139
115°	236	284	679	1463	1721	232
125°	326	382	651	1164	1356	290
135°	382	460	646	976	1127	297
145°	446	510	648	808	889	279
155°	508	547	632	714	745	234
165°	555	570	606	643	653	156
175°	577	577	582	589	587	55
180°	578	578	578	578	578	

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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°	1.2	10.5	18.7	24.5	26.8
92.5°	17.5	95.6	465.3	124.2	86.3
95°	38.5	113.7	1033.3	468.8	274.1
97.5°	59.5	123.0	1116.1	846.7	600.6
100°	81.6	141.1	1053.1	1196.6	909.7
102.5°	106.1	161.5	942.3	1492.8	1254.9
105°	131.8	184.2	845.5	1664.8	1545.2
107.5°	156.3	208.2	773.2	1713.2	1720.2
110°	183.1	233.2	725.4	1667.2	1799.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	209.9	258.3	697.4	1570.9	1790.2
115°	235.6	284.0	678.7	1463.0	1721.3
117.5°	258.9	310.2	668.2	1365.0	1617.6
120°	282.2	335.3	661.2	1282.8	1517.3
122.5°	306.7	359.8	655.4	1217.0	1428.6
125°	326.5	382.5	650.8	1163.9	1356.3
127.5°	342.9	404.6	648.4	1118.4	1289.8
130°	358.0	425.6	646.1	1072.3	1237.4
132.5°	369.7	444.4	646.1	1022.8	1184.9
135°	382.5	460.0	646.1	975.6	1126.6
137.5°	398.8	474.6	647.3	926.0	1065.9
140°	412.8	486.9	648.4	880.5	1001.8
142.5°	429.2	498.6	649.6	841.4	942.3
145°	445.5	510.2	648.4	807.6	888.7
147.5°	463.0	520.8	646.1	778.4	840.8
150°	478.2	530.0	642.6	754.6	802.4
152.5°	494.5	539.4	637.9	734.2	772.0
155°	508.5	547.0	632.1	714.3	745.2
157.5°	521.3	554.6	626.3	695.6	720.7
160°	534.1	560.4	620.4	677.0	696.2
162.5°	544.6	566.2	613.4	660.1	674.1
165°	555.1	570.3	606.4	643.2	653.1
167.5°	562.1	572.6	599.4	627.4	633.3
170°	569.1	575.6	593.6	612.2	615.8
172.5°	573.8	576.7	586.6	600.0	599.4
175°	577.3	577.3	581.9	588.9	586.6
177.5°	579.6	577.3	578.4	581.9	578.4
180°	578.4	578.4	578.4	578.4	578.4

(END OF REPORT)