

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: P1027658

Luminaire Tested: S125DIP-B1270D375UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027658
REPORT IS A COMBINATION OF REPORTS P1001696 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D375UB50-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

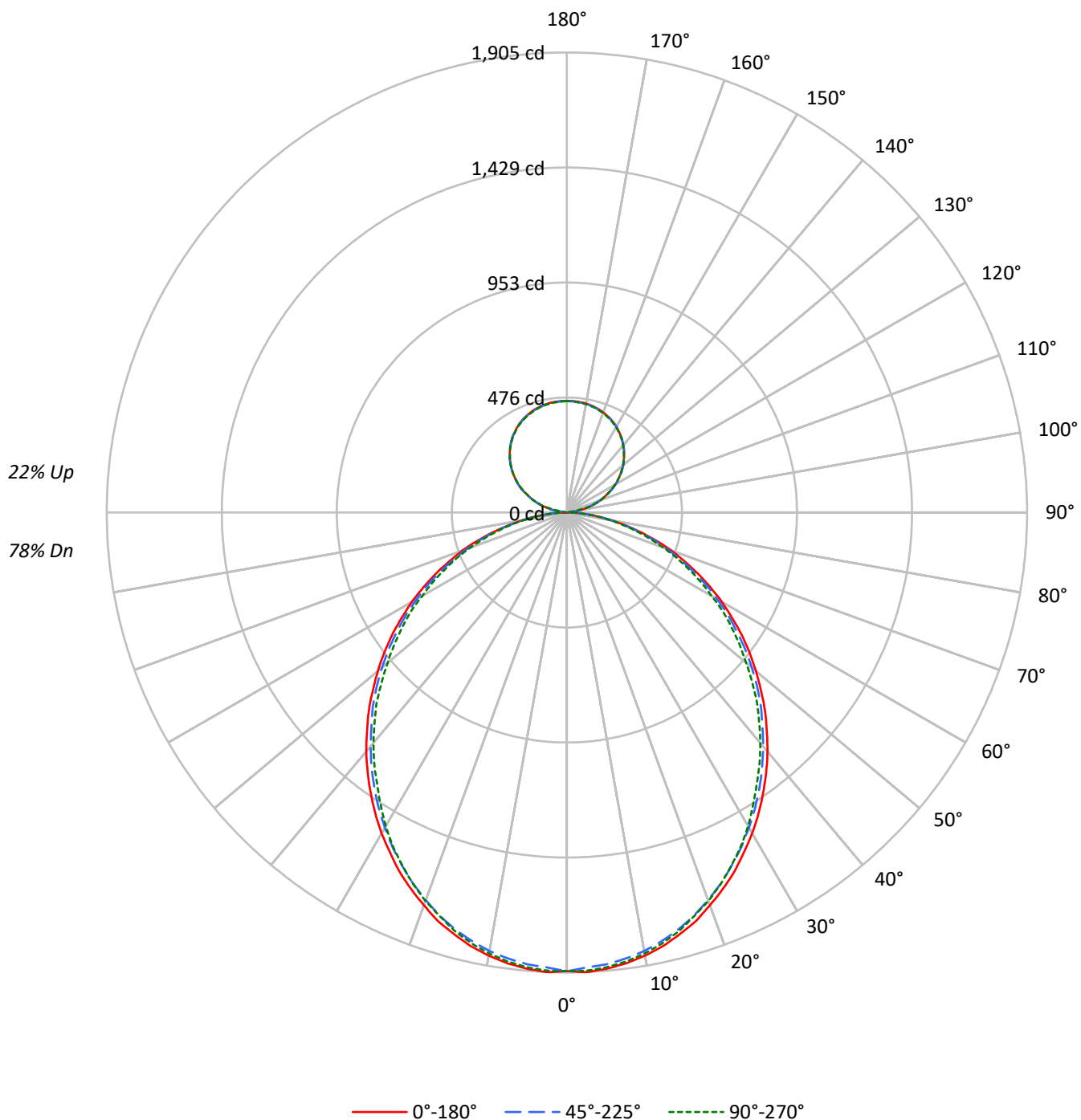
Lumens per Lamp: N/A
Luminaire Lumens: 6361.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	82	82	78
1	104	99	95	92	99	95	91	88	87	84	81	79	77	75	72	70	69	69	69	65
2	95	87	80	75	90	83	77	72	76	71	67	69	66	62	63	60	58	58	58	55
3	86	76	69	62	82	73	66	60	67	61	57	61	57	53	56	52	49	49	49	46
4	79	68	59	53	75	65	57	51	60	53	48	55	50	45	50	46	42	42	42	40
5	73	60	52	46	69	58	50	44	53	47	42	49	44	39	45	41	37	37	37	34
6	67	54	46	40	64	52	44	39	48	42	37	45	39	35	41	36	33	33	33	30
7	62	49	41	35	59	47	40	34	44	37	32	41	35	31	38	33	29	29	29	27
8	58	45	37	31	55	43	36	30	40	34	29	37	32	27	34	30	26	26	26	24
9	54	41	33	28	51	40	32	27	37	31	26	34	29	25	32	27	24	24	24	22
10	51	38	30	25	48	37	30	25	34	28	24	32	26	23	30	25	21	21	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12168	12168	12168
5°	12168	11886	11908
10°	12068	11613	11577
15°	11910	11287	11186
20°	11695	10909	10738
25°	11465	10497	10258
30°	11187	10068	9753
35°	10891	9618	9186
40°	10585	9142	8683
45°	10254	8678	8148
50°	9889	8152	7525
55°	9529	7571	6951
60°	9098	6960	6284
65°	8583	6253	5594
70°	8060	5438	4798
75°	7178	4478	3880
80°	6117	3345	2854
85°	4723	1977	1572

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10254 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	2.8
10°-20°	506.2	8.0
20°-30°	747.3	11.7
30°-40°	871.9	13.7
40°-50°	875.7	13.8
50°-60°	768.7	12.1
60°-70°	572.6	9.0
70°-80°	327.0	5.1
80°-90°	95.1	1.5
90°-100°	15.7	0.2
100°-110°	104.1	1.6
110°-120°	187.5	2.9
120°-130°	240.7	3.8
130°-140°	258.9	4.1
140°-150°	243.0	3.8
150°-160°	196.5	3.1
160°-170°	127.1	2.0
170°-180°	43.8	0.7
0°-30°	1432.7	22.5
0°-40°	2304.6	36.2
0°-60°	3949.0	62.1
0°-90°	4943.7	77.7
90°-120°	307.3	4.8
90°-150°	1049.8	16.5
90°-180°	1417.0	22.3
0°-180°	6361.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1899	1899	1899	1899	1899	
5°	1896	1893	1878	1892	1890	180
15°	1808	1803	1786	1794	1794	510
25°	1641	1633	1614	1617	1612	755
35°	1417	1411	1390	1382	1370	886
45°	1160	1154	1136	1118	1113	894
55°	884	879	858	844	834	789
65°	596	594	577	563	557	592
75°	317	314	306	302	296	337
85°	83	84	84	83	80	90
90°	0	3	6	7	8	7
95°	20	18	6	7	7	24
105°	101	102	102	102	102	107
115°	189	190	191	190	187	187
125°	268	271	271	270	268	240
135°	335	337	336	336	334	258
145°	388	389	389	389	387	243
155°	428	426	426	427	424	197
165°	451	449	449	452	449	127
175°	461	459	460	462	459	44
180°	461	461	461	461	461	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1899.1	1899.1	1899.1	1899.1	1899.1
2.5°	1905.2	1900.6	1885.6	1900.6	1899.1
5°	1896.1	1893.1	1878.1	1891.6	1890.1
7.5°	1882.6	1879.6	1863.1	1876.6	1875.1
10°	1863.1	1860.1	1843.6	1855.6	1854.1
12.5°	1839.0	1833.0	1818.0	1827.0	1827.0
15°	1807.5	1803.0	1786.5	1794.0	1794.0
17.5°	1774.4	1766.9	1750.4	1759.4	1751.9
20°	1730.9	1727.9	1708.3	1718.8	1711.3
22.5°	1687.3	1681.3	1663.3	1669.3	1664.8
25°	1640.7	1633.2	1613.7	1616.7	1612.2
27.5°	1586.6	1582.1	1562.6	1564.1	1559.6
30°	1534.0	1529.5	1507.0	1504.0	1499.5
32.5°	1476.9	1469.4	1449.9	1443.9	1434.9
35°	1416.8	1410.8	1389.8	1382.3	1370.3
37.5°	1355.2	1347.7	1328.2	1317.7	1310.2
40°	1292.1	1284.6	1263.6	1250.1	1245.6
42.5°	1224.5	1218.5	1197.5	1185.5	1177.9
45°	1159.9	1153.9	1135.9	1117.8	1113.3
47.5°	1089.3	1090.8	1068.3	1050.2	1039.7
50°	1021.7	1017.2	999.2	979.6	969.1
52.5°	952.6	949.6	930.0	913.5	901.5
55°	883.5	879.0	857.9	844.4	833.9
57.5°	809.8	808.3	790.3	772.3	767.8
60°	740.7	734.7	718.2	703.2	692.6
62.5°	668.6	664.1	650.6	634.0	626.5
65°	596.5	593.5	577.0	563.4	557.4
67.5°	525.9	519.9	507.8	495.8	492.8
70°	459.8	452.2	438.7	429.7	423.7
72.5°	387.6	383.1	375.6	365.1	359.1
75°	317.0	314.0	306.5	302.0	296.0
77.5°	250.9	249.4	244.9	241.9	237.4
80°	189.3	189.3	186.3	184.8	181.8
82.5°	135.2	132.2	132.2	129.2	129.2
85°	82.6	84.1	84.1	82.6	79.6
87.5°	40.6	40.6	39.1	39.1	36.1
90°	0.3	3.1	5.5	7.2	8.2
92.5°	6.5	3.4	5.5	7.2	7.5
95°	19.5	18.5	5.5	7.2	7.2
97.5°	36.6	38.6	6.2	6.8	7.2
100°	57.1	58.1	59.5	8.6	7.2
102.5°	78.0	79.4	80.0	80.7	52.0
105°	100.6	101.9	101.9	101.9	101.6
107.5°	123.8	123.8	124.5	124.8	123.5
110°	146.4	146.4	147.1	146.0	146.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	167.6	168.6	169.0	167.6	166.9
115°	188.8	190.5	190.9	189.5	187.4
117.5°	211.0	211.0	212.4	210.3	209.7
120°	231.6	231.2	232.2	231.6	229.8
122.5°	249.7	251.4	251.7	251.0	249.0
125°	268.5	270.9	270.9	269.5	268.5
127.5°	286.6	288.3	288.0	287.3	284.6
130°	303.0	304.7	305.1	304.1	302.4
132.5°	319.5	321.5	320.5	320.5	318.8
135°	334.8	336.9	336.2	335.5	333.5
137.5°	349.2	351.3	350.6	350.6	348.9
140°	363.2	363.9	363.6	364.3	362.2
142.5°	375.9	376.2	376.9	376.9	374.9
145°	388.2	388.9	388.9	389.2	387.2
147.5°	399.1	399.1	399.5	399.8	397.4
150°	409.4	408.7	409.4	410.1	407.4
152.5°	419.3	417.6	418.3	419.0	416.6
155°	427.5	425.5	426.2	427.2	424.5
157.5°	434.0	433.0	433.0	434.0	431.3
160°	440.9	438.8	439.2	440.5	437.8
162.5°	446.3	444.3	444.6	446.7	443.6
165°	451.1	449.1	449.4	451.5	448.7
167.5°	454.9	452.8	453.2	455.6	452.5
170°	458.0	455.6	455.9	458.7	455.6
172.5°	460.0	457.6	458.3	460.7	457.6
175°	461.4	459.3	459.7	462.4	459.3
177.5°	462.4	460.4	460.7	463.1	460.4
180°	461.4	461.4	461.4	461.4	461.4

(END OF REPORT)