

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: P1027419

Luminaire Tested: S125DIP-B1090D375UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027419
REPORT IS A COMBINATION OF REPORTS P1001379 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D375UB35-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

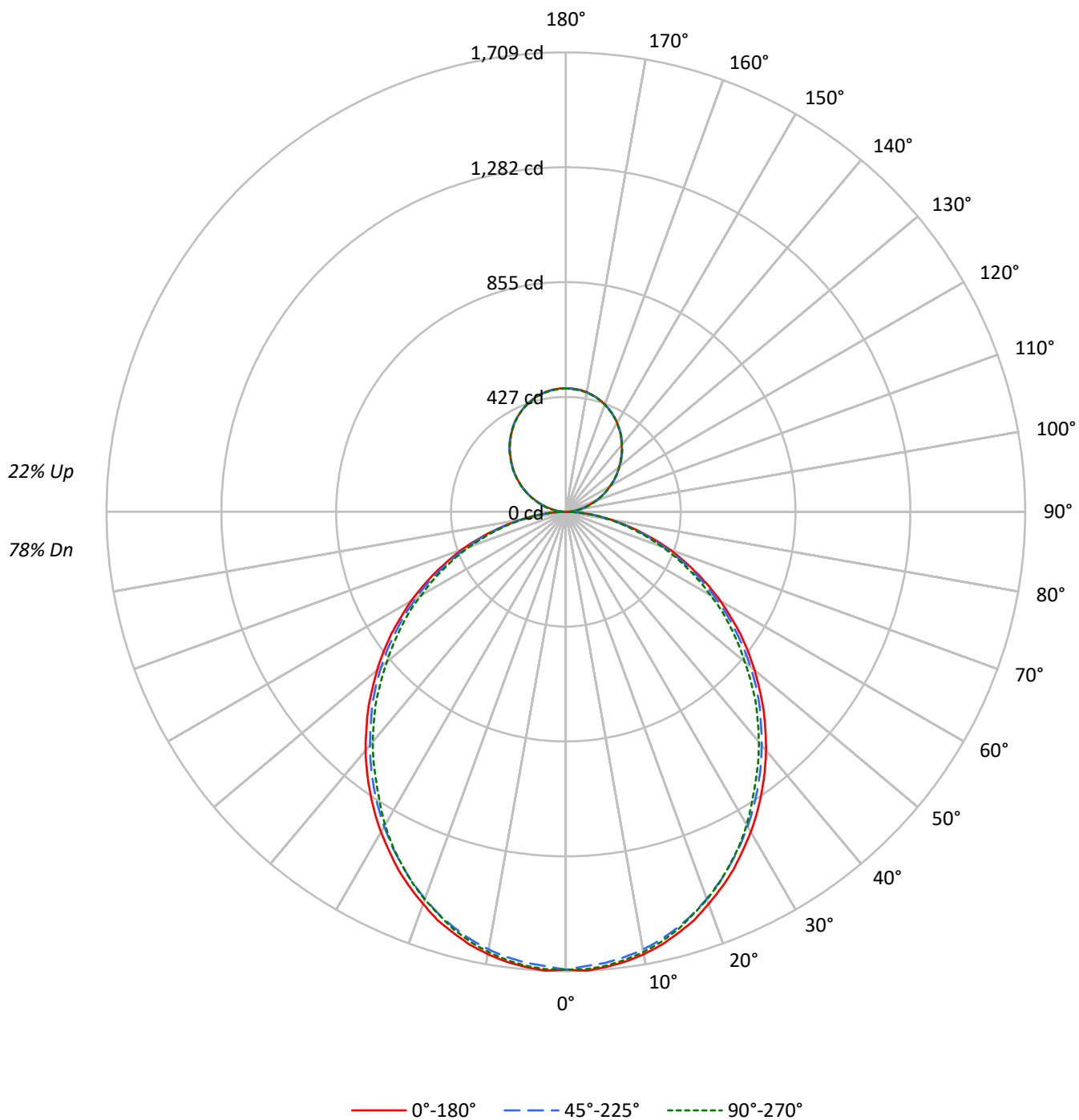
Lumens per Lamp: N/A
Luminaire Lumens: 5715.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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	114	114	114	114	108	108	108	108	99	99	99	90	90	90	81	81	81
1	104	99	95	92	99	95	91	88	87	84	81	79	77	75	72	70	69
2	95	87	80	75	90	83	77	72	76	71	67	69	66	62	63	60	58
3	86	76	69	62	82	73	66	60	67	61	57	61	57	53	56	52	49
4	79	68	59	53	75	65	57	51	60	53	48	55	49	45	50	46	42
5	73	60	52	46	69	58	50	44	53	47	42	49	44	39	45	41	37
6	67	54	46	40	64	52	44	39	48	42	37	44	39	35	41	36	33
7	62	49	41	35	59	47	40	34	44	37	32	41	35	31	37	33	29
8	58	45	37	31	55	43	36	30	40	34	29	37	32	27	34	30	26
9	54	41	33	28	51	40	32	27	37	31	26	34	29	25	32	27	24
10	51	38	30	25	48	37	29	25	34	28	24	32	26	22	30	25	21

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	2.8
10°-20°	454.1	7.9
20°-30°	670.4	11.7
30°-40°	782.1	13.7
40°-50°	785.5	13.7
50°-60°	689.5	12.1
60°-70°	513.6	9.0
70°-80°	293.3	5.1
80°-90°	85.4	1.5
90°-100°	30.5	0.5
100°-110°	90.6	1.6
110°-120°	153.7	2.7
120°-130°	202.3	3.5
130°-140°	226.7	4.0
140°-150°	222.2	3.9
150°-160°	186.7	3.3
160°-170°	124.1	2.2
170°-180°	43.4	0.8
0°-30°	1285.2	22.5
0°-40°	2067.3	36.2
0°-60°	3542.4	62.0
0°-90°	4434.7	77.6
90°-120°	274.8	4.8
90°-150°	926.1	16.2
90°-180°	1280.0	22.4
0°-180°	5715.0	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°	0	3	6	8	9	7
95°	23	24	28	30	31	24
105°	81	83	85	88	88	87
115°	154	155	156	156	155	152
125°	224	227	227	226	226	201
135°	292	294	294	294	293	225
145°	354	355	356	356	355	221
155°	405	405	405	407	405	186
165°	440	440	440	441	439	124
175°	458	456	456	458	456	43
180°	459	459	459	459	459	

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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°	0.4	3.2	5.7	7.5	8.6
92.5°	10.7	12.5	15.7	18.2	18.9
95°	23.2	23.9	27.5	30.0	30.7
97.5°	35.7	36.1	41.1	43.2	43.6
100°	50.0	50.0	54.6	57.8	58.5
102.5°	65.3	67.1	68.9	72.5	73.5
105°	81.4	83.2	85.3	87.5	88.5
107.5°	98.9	100.7	102.5	103.5	103.5
110°	117.1	118.9	119.9	121.0	120.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.7	136.4	137.8	138.2	137.4
115°	153.9	155.3	156.0	155.6	155.3
117.5°	172.4	172.8	173.5	173.9	172.4
120°	189.6	191.3	191.7	191.7	190.3
122.5°	208.1	208.5	209.6	209.2	208.1
125°	224.5	226.7	227.0	226.3	226.0
127.5°	242.8	243.8	244.2	243.8	243.1
130°	258.8	260.6	261.3	261.0	260.2
132.5°	274.9	278.1	277.7	277.4	276.3
135°	292.0	294.2	294.5	294.5	293.1
137.5°	308.1	310.2	310.9	311.3	309.5
140°	323.4	325.2	326.3	327.0	325.2
142.5°	338.8	340.2	341.6	342.0	340.2
145°	353.8	355.2	356.3	356.3	355.2
147.5°	367.7	368.8	369.5	370.6	367.7
150°	381.6	381.3	382.7	382.7	382.0
152.5°	393.0	393.8	394.1	395.2	393.8
155°	404.8	404.8	405.2	406.6	404.8
157.5°	415.5	414.8	415.2	416.6	414.1
160°	424.8	423.7	424.1	425.5	423.7
162.5°	433.0	432.3	432.3	434.1	432.0
165°	440.2	439.5	439.8	441.2	439.1
167.5°	446.6	445.2	445.2	447.3	445.2
170°	451.6	450.2	450.2	452.3	449.8
172.5°	455.2	453.7	453.7	455.9	453.7
175°	457.7	456.2	456.2	458.4	455.9
177.5°	459.4	458.0	457.7	459.8	457.3
180°	458.7	458.7	458.7	458.7	458.7

(END OF REPORT)