

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: P1027418

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027418
REPORT IS A COMBINATION OF REPORTS P1001378 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-F
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

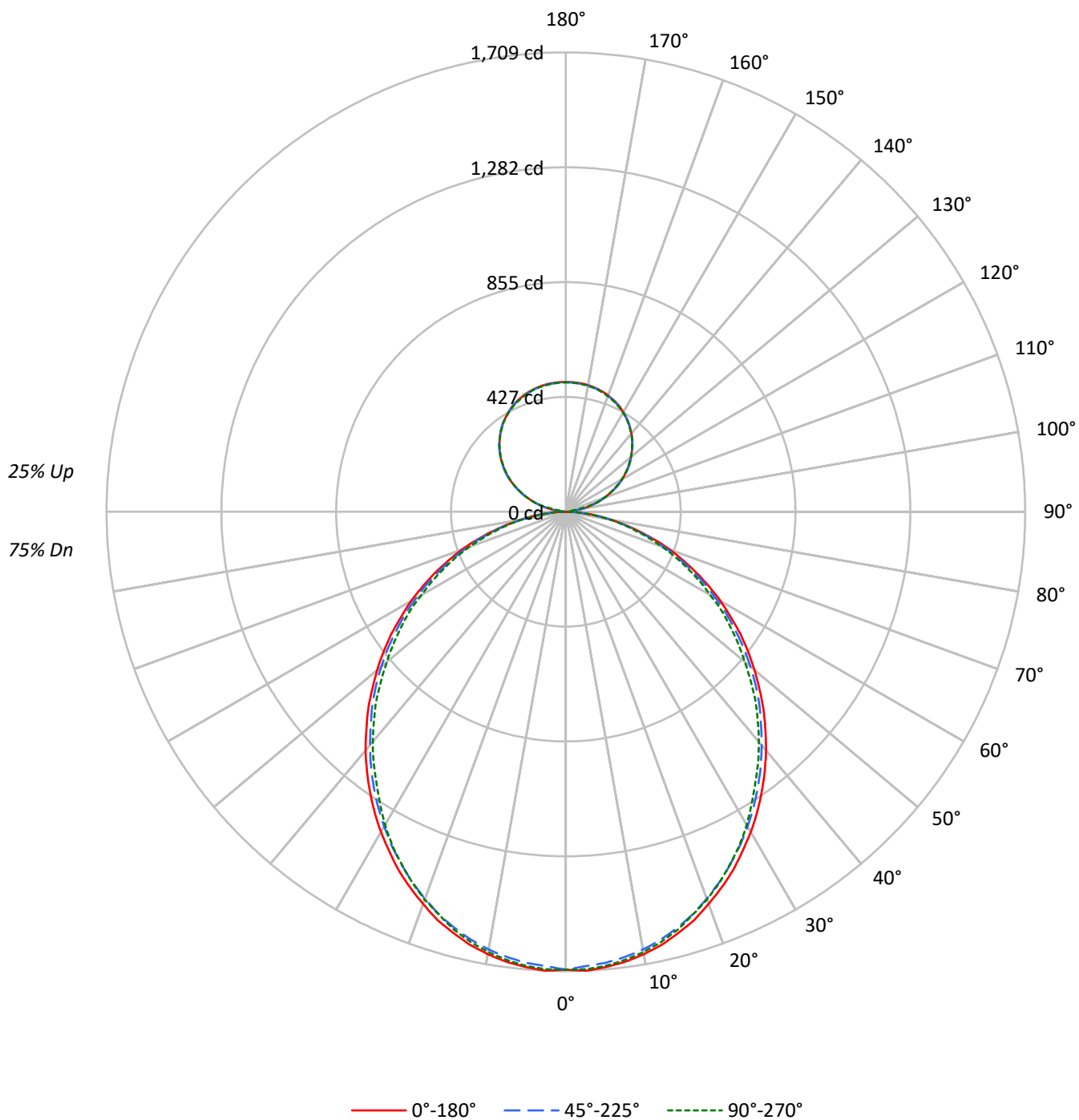
Lumens per Lamp: N/A
Luminaire Lumens: 5915.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	70	68	67
2	94	86	80	74	89	82	76	72	75	70	66	68	64	61	61	59	56
3	86	76	68	62	81	72	65	60	66	60	56	60	55	52	54	51	48
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	49	45	41
5	72	60	52	45	68	57	50	44	53	46	41	48	43	38	44	39	36
6	67	54	46	39	63	52	44	38	47	41	36	44	38	34	40	35	32
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	36	32	28
8	57	45	36	31	55	43	35	30	39	33	28	36	31	27	33	29	25
9	54	41	33	28	51	39	32	27	36	30	26	34	28	24	31	26	23
10	50	38	30	25	48	36	29	24	34	27	23	31	26	22	29	24	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	2.7
10°-20°	454.1	7.7
20°-30°	670.4	11.3
30°-40°	782.1	13.2
40°-50°	785.5	13.3
50°-60°	689.5	11.7
60°-70°	513.6	8.7
70°-80°	293.3	5.0
80°-90°	85.4	1.4
90°-100°	16.4	0.3
100°-110°	108.8	1.8
110°-120°	195.8	3.3
120°-130°	251.4	4.3
130°-140°	270.4	4.6
140°-150°	253.8	4.3
150°-160°	205.3	3.5
160°-170°	132.7	2.2
170°-180°	45.8	0.8
0°-30°	1285.2	21.7
0°-40°	2067.3	35.0
0°-60°	3542.4	59.9
0°-90°	4434.7	75.0
90°-120°	321.0	5.4
90°-150°	1096.5	18.5
90°-180°	1480.0	25.0
0°-180°	5915.0	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	6
95°	20	19	6	8	8	25
105°	105	106	106	106	106	111
115°	197	199	199	198	196	195
125°	280	283	283	282	280	251
135°	350	352	351	350	348	270
145°	406	406	406	406	404	254
155°	446	444	445	446	443	206
165°	471	469	469	472	469	133
175°	482	480	480	483	480	46
180°	482	482	482	482	482	

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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°	6.8	3.6	5.7	7.5	7.9
95°	20.4	19.3	5.7	7.5	7.5
97.5°	38.2	40.4	6.4	7.1	7.5
100°	59.7	60.7	62.2	8.9	7.5
102.5°	81.4	82.9	83.6	84.3	54.3
105°	105.0	106.5	106.5	106.5	106.1
107.5°	129.3	129.3	130.0	130.4	129.0
110°	152.9	152.9	153.6	152.5	152.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	175.0	176.1	176.5	175.0	174.3
115°	197.2	199.0	199.3	197.9	195.8
117.5°	220.4	220.4	221.8	219.7	219.0
120°	241.8	241.5	242.6	241.8	240.1
122.5°	260.8	262.6	262.9	262.2	260.1
125°	280.4	282.9	282.9	281.5	280.4
127.5°	299.4	301.1	300.8	300.1	297.2
130°	316.5	318.3	318.6	317.6	315.8
132.5°	333.6	335.8	334.7	334.7	332.9
135°	349.7	351.9	351.2	350.4	348.3
137.5°	364.7	366.9	366.2	366.2	364.4
140°	379.4	380.1	379.7	380.4	378.3
142.5°	392.6	392.9	393.7	393.7	391.5
145°	405.5	406.2	406.2	406.5	404.4
147.5°	416.9	416.9	417.2	417.6	415.1
150°	427.6	426.9	427.6	428.3	425.5
152.5°	438.0	436.2	436.9	437.6	435.1
155°	446.5	444.4	445.1	446.2	443.3
157.5°	453.3	452.2	452.2	453.3	450.5
160°	460.5	458.3	458.7	460.1	457.2
162.5°	466.2	464.0	464.4	466.5	463.3
165°	471.2	469.0	469.4	471.5	468.7
167.5°	475.1	473.0	473.3	475.8	472.6
170°	478.3	475.8	476.2	479.0	475.8
172.5°	480.5	478.0	478.7	481.2	478.0
175°	481.9	479.8	480.1	483.0	479.8
177.5°	483.0	480.8	481.2	483.7	480.8
180°	481.9	481.9	481.9	481.9	481.9

(END OF REPORT)