

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: P1027420

Luminaire Tested: S125DIP-B1090D375UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027420
REPORT IS A COMBINATION OF REPORTS P1001380 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-F4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

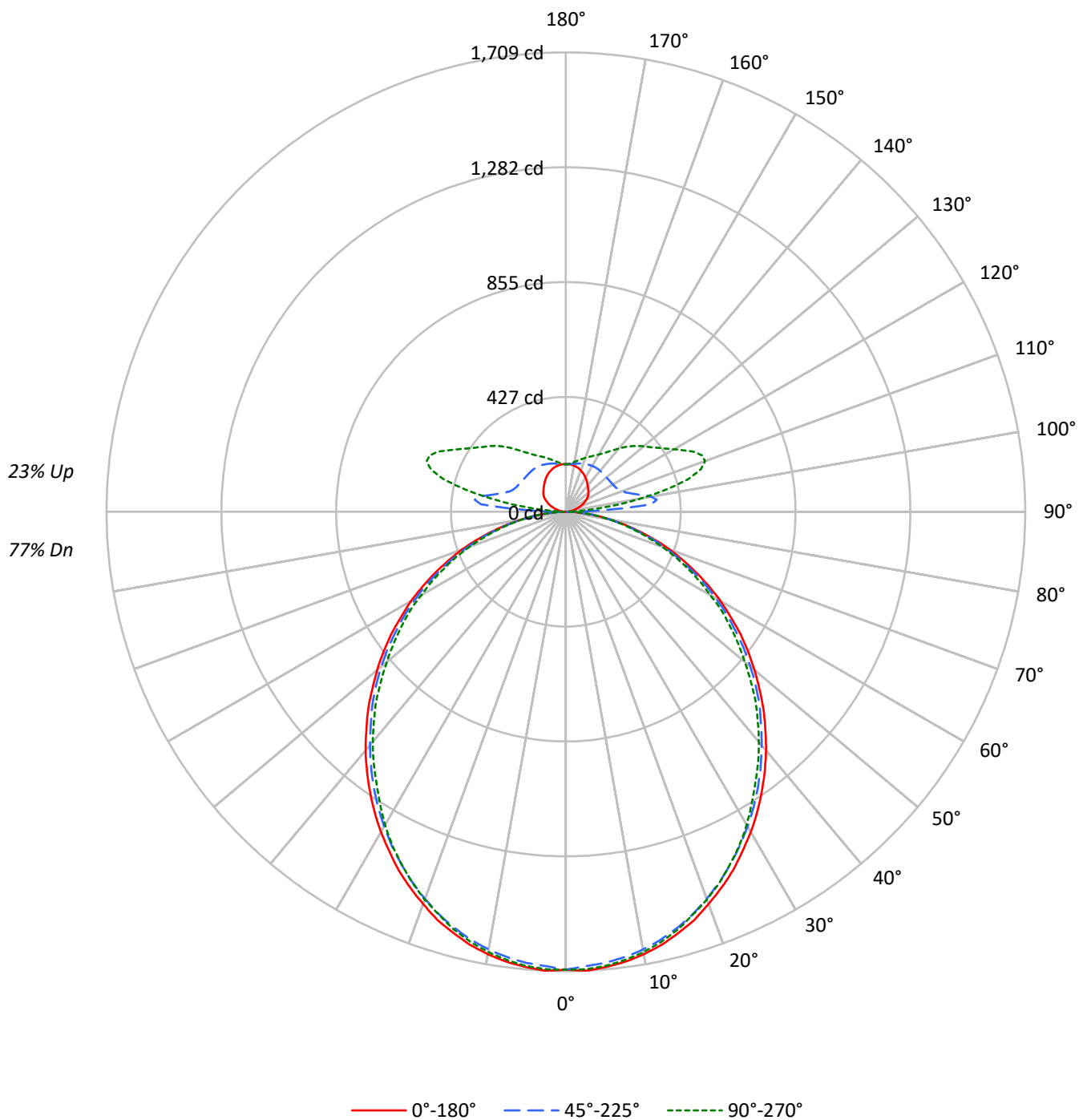
Lumens per Lamp: N/A
Luminaire Lumens: 5767.7 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	98	98	98	89	89	89	81	81	81
1	104	99	95	91	99	95	91	88	86	83	81	78	76	74	71	70	68
2	94	87	80	75	90	83	77	72	76	71	67	69	65	62	63	60	57
3	86	76	68	62	82	73	66	60	67	61	56	61	56	52	56	52	49
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	50	45	42
5	73	60	52	45	69	58	50	44	53	47	42	49	43	39	45	40	37
6	67	54	46	40	64	52	44	39	48	41	36	44	39	34	41	36	32
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29
8	58	45	37	31	55	43	36	30	40	33	29	37	31	27	34	29	26
9	54	41	33	28	51	40	32	27	37	30	26	34	29	25	32	27	23
10	50	38	30	25	48	36	29	25	34	28	23	32	26	22	29	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	11.6
30°-40°	782.1	13.6
40°-50°	785.5	13.6
50°-60°	689.5	12.0
60°-70°	513.6	8.9
70°-80°	293.3	5.1
80°-90°	85.4	1.5
90°-100°	133.4	2.3
100°-110°	277.0	4.8
110°-120°	258.8	4.5
120°-130°	209.4	3.6
130°-140°	168.2	2.9
140°-150°	127.0	2.2
150°-160°	89.4	1.6
160°-170°	52.7	0.9
170°-180°	17.1	0.3
0°-30°	1285.2	22.3
0°-40°	2067.3	35.8
0°-60°	3542.4	61.4
0°-90°	4434.7	76.9
90°-120°	669.2	11.6
90°-150°	1173.8	20.4
90°-180°	1333.0	23.1
0°-180°	5767.7	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	8	6
95°	12	35	316	144	84	12
105°	40	56	259	510	473	43
115°	72	87	208	448	527	71
125°	100	117	199	356	415	89
135°	117	141	198	299	345	91
145°	136	156	198	247	272	86
155°	156	168	194	219	228	72
165°	170	175	186	197	200	48
175°	177	177	178	180	180	17
180°	177	177	177	177	177	

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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	8.2
92.5°	5.4	29.3	142.5	38.0	26.4
95°	11.8	34.8	316.4	143.6	83.9
97.5°	18.2	37.7	341.7	259.2	183.9
100°	25.0	43.2	322.4	366.4	278.5
102.5°	32.5	49.4	288.5	457.0	384.2
105°	40.4	56.4	258.9	509.8	473.1
107.5°	47.8	63.8	236.7	524.6	526.7
110°	56.1	71.4	222.1	510.4	551.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	64.3	79.1	213.5	481.0	548.1
115°	72.1	87.0	207.8	448.0	527.1
117.5°	79.3	95.0	204.6	418.0	495.3
120°	86.4	102.6	202.5	392.8	464.6
122.5°	93.9	110.2	200.7	372.6	437.4
125°	100.0	117.2	199.3	356.4	415.3
127.5°	105.0	124.0	198.5	342.5	394.9
130°	109.6	130.4	197.8	328.3	378.9
132.5°	113.2	136.0	197.8	313.2	362.8
135°	117.1	140.8	197.8	298.7	344.9
137.5°	122.1	145.3	198.2	283.6	326.4
140°	126.4	149.1	198.5	269.6	306.7
142.5°	131.4	152.6	198.9	257.6	288.5
145°	136.4	156.2	198.5	247.3	272.1
147.5°	141.8	159.4	197.8	238.4	257.5
150°	146.4	162.3	196.8	231.0	245.7
152.5°	151.4	165.2	195.3	224.8	236.4
155°	155.7	167.5	193.5	218.7	228.2
157.5°	159.6	169.8	191.8	213.0	220.7
160°	163.5	171.6	190.0	207.2	213.2
162.5°	166.8	173.4	187.8	202.1	206.4
165°	170.0	174.6	185.7	196.9	200.0
167.5°	172.1	175.3	183.5	192.1	193.9
170°	174.3	176.2	181.8	187.4	188.5
172.5°	175.7	176.6	179.6	183.7	183.5
175°	176.8	176.8	178.2	180.3	179.6
177.5°	177.5	176.8	177.1	178.2	177.1
180°	177.1	177.1	177.1	177.1	177.1

(END OF REPORT)