

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: P1027651

Luminaire Tested: S125DIP-B1270D375UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027651
REPORT IS A COMBINATION OF REPORTS P1001689 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D375UB40-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

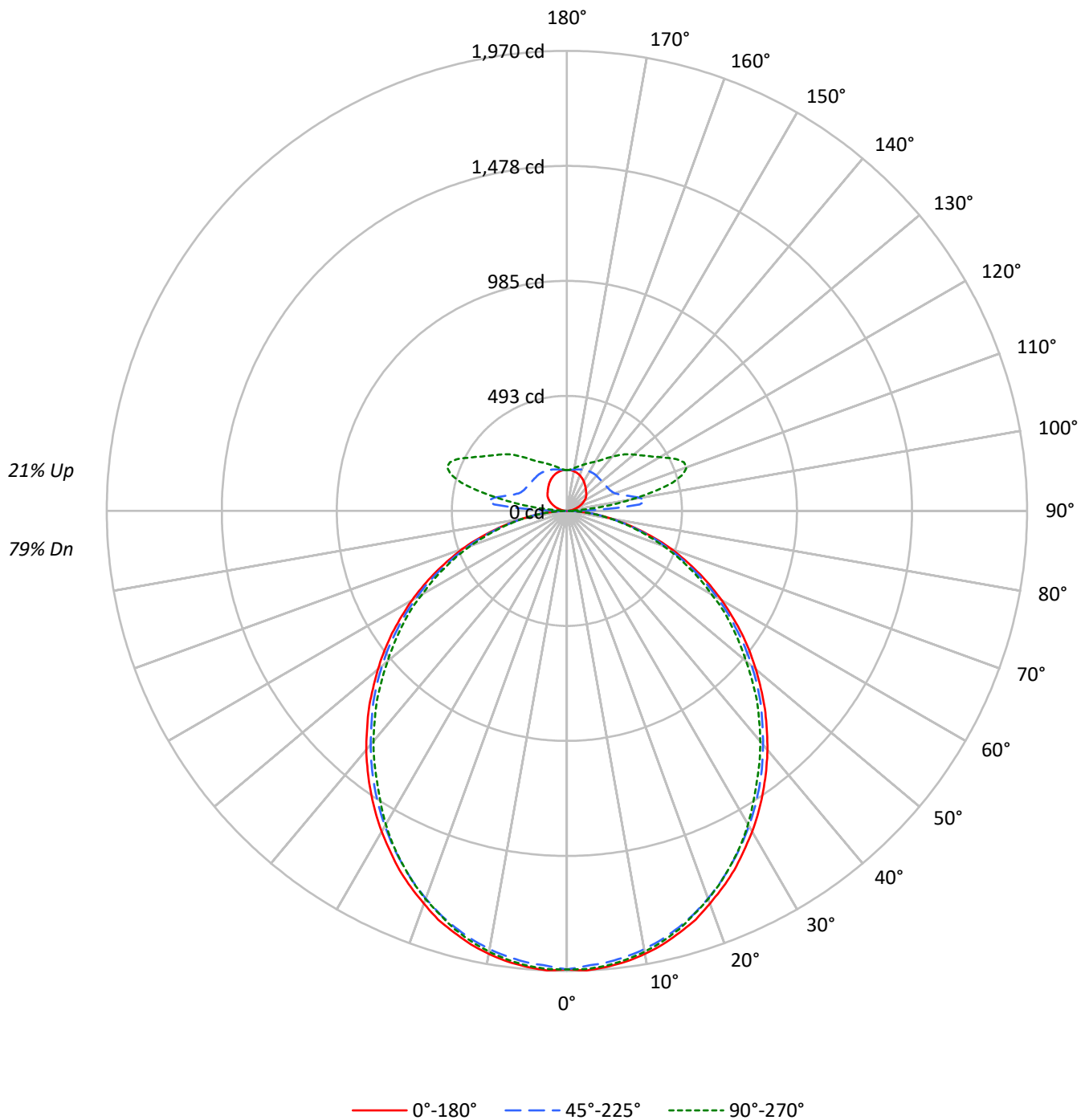
Lumens per Lamp: N/A
Luminaire Lumens: 6431.7 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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				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	109	109	109	109	100	100	100	91	91	91	83	83	83
1	104	100	96	92	100	95	92	89	88	85	82	80	78	76	73	72	70
2	95	87	81	75	90	83	78	73	77	72	68	70	67	63	65	62	59
3	87	77	69	63	83	74	66	61	68	62	57	62	58	54	57	53	50
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43
5	73	61	52	46	69	58	50	45	54	47	42	50	44	40	46	41	38
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33
7	62	49	41	35	60	48	40	34	44	38	33	41	35	31	38	33	30
8	58	45	37	31	55	44	36	31	41	34	29	38	32	28	35	30	27
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24
10	51	38	31	25	49	37	30	25	35	28	24	32	27	23	30	25	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12582	12582	12582
5°	12582	12289	12313
10°	12478	12008	11970
15°	12314	11671	11566
20°	12093	11280	11103
25°	11855	10854	10607
30°	11568	10410	10084
35°	11262	9944	9498
40°	10945	9452	8978
45°	10602	8973	8425
50°	10225	8429	7780
55°	9852	7829	7187
60°	9407	7197	6498
65°	8875	6465	5785
70°	8333	5623	4961
75°	7422	4630	4011
80°	6324	3458	2951
85°	4883	2046	1626

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10602 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	2.9
10°-20°	523.4	8.1
20°-30°	772.7	12.0
30°-40°	901.5	14.0
40°-50°	905.5	14.1
50°-60°	794.8	12.4
60°-70°	592.0	9.2
70°-80°	338.1	5.3
80°-90°	98.3	1.5
90°-100°	132.1	2.1
100°-110°	274.3	4.3
110°-120°	256.2	4.0
120°-130°	207.3	3.2
130°-140°	166.6	2.6
140°-150°	125.7	2.0
150°-160°	88.5	1.4
160°-170°	52.2	0.8
170°-180°	17.0	0.3
0°-30°	1481.4	23.0
0°-40°	2383.0	37.1
0°-60°	4083.2	63.5
0°-90°	5111.7	79.5
90°-120°	662.6	10.3
90°-150°	1162.3	18.1
90°-180°	1320.0	20.5
0°-180°	6431.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1964	1964	1964	1964	1964	
5°	1961	1958	1942	1956	1954	186
15°	1869	1864	1847	1855	1855	527
25°	1696	1689	1668	1672	1667	781
35°	1465	1459	1437	1429	1417	916
45°	1199	1193	1174	1156	1151	924
55°	914	909	887	873	862	815
65°	617	614	597	583	576	612
75°	328	325	317	312	306	349
85°	85	87	87	85	82	94
90°	0	3	6	7	8	7
95°	12	34	313	142	83	12
105°	40	56	256	505	468	42
115°	71	86	206	444	522	70
125°	99	116	197	353	411	88
135°	116	140	196	296	342	90
145°	135	155	197	245	269	85
155°	154	166	192	217	226	71
165°	168	173	184	195	198	47
175°	175	175	176	179	178	17
180°	175	175	175	175	175	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1963.7	1963.7	1963.7	1963.7	1963.7
2.5°	1969.9	1965.2	1949.7	1965.2	1963.7
5°	1960.6	1957.5	1941.9	1955.9	1954.4
7.5°	1946.6	1943.5	1926.4	1940.4	1938.8
10°	1926.4	1923.3	1906.2	1918.6	1917.1
12.5°	1901.5	1895.3	1879.8	1889.1	1889.1
15°	1868.9	1864.3	1847.2	1854.9	1854.9
17.5°	1834.7	1827.0	1809.9	1819.2	1811.4
20°	1789.7	1786.6	1766.4	1777.3	1769.5
22.5°	1744.6	1738.4	1719.8	1726.0	1721.3
25°	1696.5	1688.7	1668.5	1671.6	1667.0
27.5°	1640.6	1635.9	1615.7	1617.2	1612.6
30°	1586.2	1581.5	1558.2	1555.1	1550.4
32.5°	1527.1	1519.4	1499.2	1493.0	1483.6
35°	1465.0	1458.8	1437.0	1429.3	1416.8
37.5°	1401.3	1393.5	1373.3	1362.5	1354.7
40°	1336.1	1328.3	1306.5	1292.6	1287.9
42.5°	1266.1	1259.9	1238.2	1225.8	1218.0
45°	1199.3	1193.1	1174.5	1155.8	1151.2
47.5°	1126.3	1127.9	1104.6	1085.9	1075.1
50°	1056.4	1051.8	1033.1	1012.9	1002.0
52.5°	985.0	981.8	961.6	944.6	932.1
55°	913.5	908.8	887.1	873.1	862.2
57.5°	837.4	835.8	817.2	798.5	793.9
60°	765.9	759.7	742.6	727.1	716.2
62.5°	691.3	686.7	672.7	655.6	647.8
65°	616.8	613.7	596.6	582.6	576.4
67.5°	543.7	537.5	525.1	512.7	509.6
70°	475.4	467.6	453.6	444.3	438.1
72.5°	400.8	396.2	388.4	377.5	371.3
75°	327.8	324.7	316.9	312.3	306.0
77.5°	259.4	257.9	253.2	250.1	245.5
80°	195.7	195.7	192.6	191.1	188.0
82.5°	139.8	136.7	136.7	133.6	133.6
85°	85.4	87.0	87.0	85.4	82.3
87.5°	41.9	41.9	40.4	40.4	37.3
90°	0.4	3.2	5.7	7.4	8.1
92.5°	5.3	29.0	141.1	37.6	26.2
95°	11.7	34.4	313.3	142.2	83.1
97.5°	18.0	37.3	338.4	256.7	182.1
100°	24.8	42.8	319.3	362.8	275.8
102.5°	32.2	49.0	285.7	452.6	380.5
105°	40.0	55.8	256.4	504.8	468.5
107.5°	47.4	63.1	234.4	519.4	521.6
110°	55.5	70.7	219.9	505.4	545.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.6	78.3	211.5	476.3	542.8
115°	71.4	86.1	205.8	443.6	521.9
117.5°	78.5	94.0	202.6	413.9	490.4
120°	85.6	101.6	200.5	389.0	460.0
122.5°	93.0	109.1	198.7	369.0	433.2
125°	99.0	116.0	197.3	352.9	411.2
127.5°	104.0	122.7	196.6	339.1	391.1
130°	108.6	129.1	195.9	325.1	375.2
132.5°	112.1	134.7	195.9	310.1	359.3
135°	116.0	139.5	195.9	295.8	341.6
137.5°	120.9	144.0	196.2	280.8	323.2
140°	125.2	147.6	196.6	267.0	303.7
142.5°	130.1	151.1	197.0	255.1	285.7
145°	135.1	154.7	196.6	244.8	269.4
147.5°	140.4	157.9	195.9	236.0	254.9
150°	145.0	160.7	194.8	228.8	243.3
152.5°	149.9	163.6	193.4	222.6	234.1
155°	154.2	165.9	191.6	216.6	225.9
157.5°	158.1	168.1	189.9	210.9	218.5
160°	161.9	169.9	188.1	205.2	211.1
162.5°	165.1	171.6	186.0	200.1	204.4
165°	168.3	172.9	183.9	195.0	198.0
167.5°	170.4	173.6	181.7	190.2	192.0
170°	172.6	174.5	180.0	185.6	186.7
172.5°	174.0	174.8	177.9	181.9	181.7
175°	175.0	175.0	176.4	178.6	177.9
177.5°	175.7	175.0	175.4	176.4	175.4
180°	175.4	175.4	175.4	175.4	175.4

(END OF REPORT)