

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: P1027696

Luminaire Tested: S125DIP-B1270D610UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027696
REPORT IS A COMBINATION OF REPORTS P1001749 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D610UB40-4F0-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

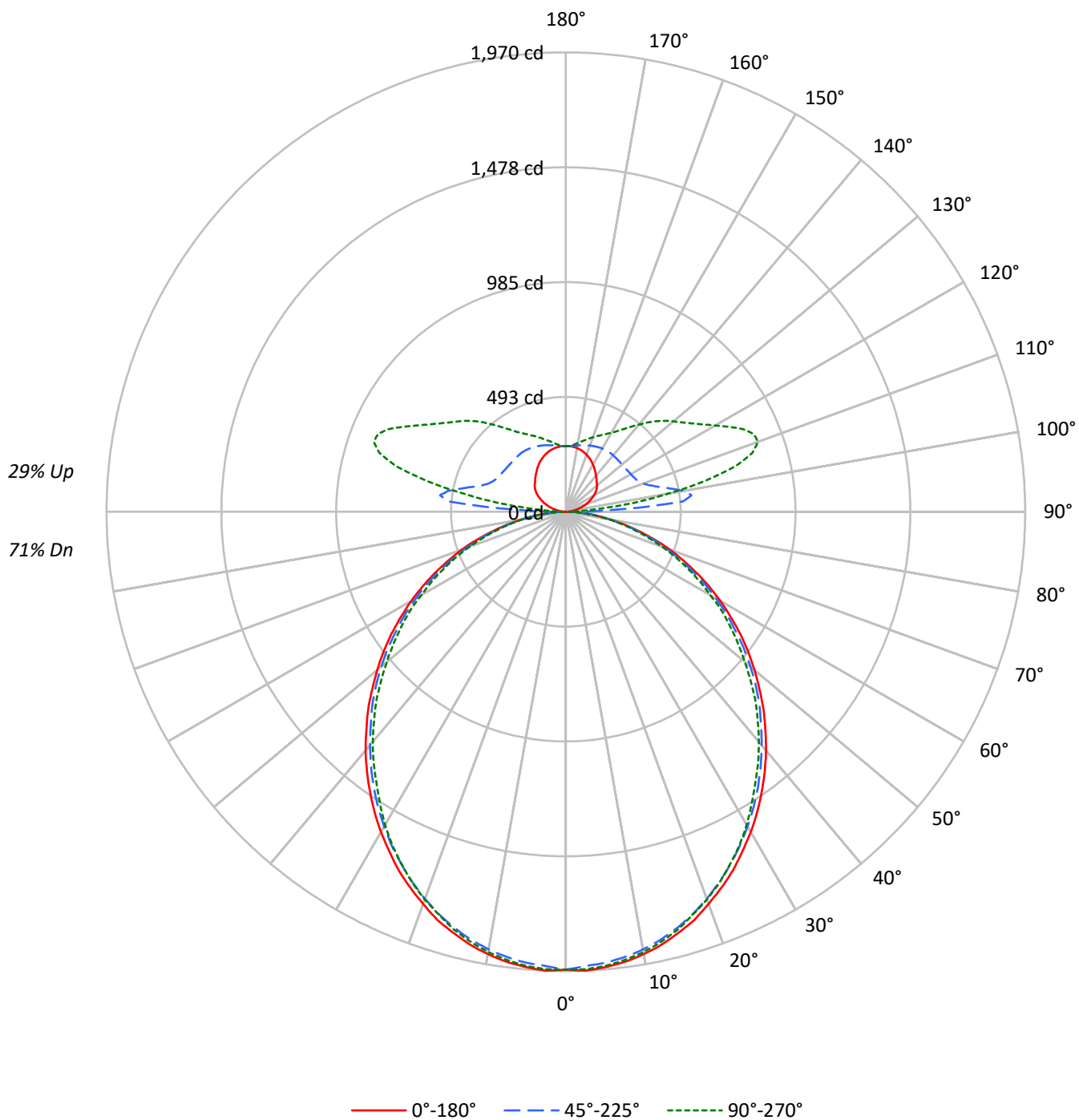
Lumens per Lamp: N/A
Luminaire Lumens: 7233.3 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63
2	93	85	79	74	88	81	75	71	73	68	64	65	62	59	58	56	53
3	85	75	67	61	80	71	64	59	64	59	54	58	53	50	52	48	45
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39
5	72	59	51	45	67	57	49	43	51	45	40	46	41	37	42	37	34
6	66	53	45	39	62	51	43	38	46	40	35	42	37	32	38	33	30
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	35	30	27
8	57	44	36	30	54	42	35	30	38	32	28	35	30	26	32	27	24
9	53	40	33	27	50	39	31	26	35	29	25	32	27	23	29	25	22
10	50	37	30	25	47	36	29	24	33	27	22	30	25	21	27	23	20

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	2.6
10°-20°	523.4	7.2
20°-30°	772.7	10.7
30°-40°	901.5	12.5
40°-50°	905.5	12.5
50°-60°	794.8	11.0
60°-70°	592.0	8.2
70°-80°	338.1	4.7
80°-90°	98.7	1.4
90°-100°	212.2	2.9
100°-110°	440.8	6.1
110°-120°	411.8	5.7
120°-130°	333.2	4.6
130°-140°	267.7	3.7
140°-150°	202.1	2.8
150°-160°	142.3	2.0
160°-170°	83.9	1.2
170°-180°	27.3	0.4
0°-30°	1481.4	20.5
0°-40°	2383.0	32.9
0°-60°	4083.2	56.5
0°-90°	5112.1	70.7
90°-120°	1064.8	14.7
90°-150°	1867.8	25.8
90°-180°	2121.0	29.3
0°-180°	7233.3	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°	1	5	9	12	13	7
95°	19	55	503	228	134	20
105°	64	90	412	811	753	68
115°	115	138	331	713	839	113
125°	159	186	317	567	661	141
135°	186	224	315	475	549	145
145°	217	249	316	394	433	136
155°	248	266	308	348	363	114
165°	270	278	296	313	318	76
175°	281	281	284	287	286	27
180°	282	282	282	282	282	

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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°	0.6	5.1	9.1	12.0	13.1
92.5°	8.5	46.6	226.7	60.5	42.0
95°	18.8	55.4	503.4	228.4	133.5
97.5°	29.0	60.0	543.8	412.5	292.6
100°	39.8	68.8	513.1	583.0	443.2
102.5°	51.7	78.7	459.1	727.3	611.4
105°	64.2	89.8	412.0	811.2	752.9
107.5°	76.1	101.4	376.7	834.7	838.1
110°	89.2	113.6	353.4	812.2	876.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	102.3	125.9	339.8	765.3	872.2
115°	114.8	138.4	330.7	712.8	838.7
117.5°	126.1	151.2	325.6	665.1	788.1
120°	137.5	163.4	322.2	625.0	739.3
122.5°	149.4	175.3	319.3	593.0	696.1
125°	159.1	186.4	317.1	567.0	660.8
127.5°	167.1	197.2	315.9	544.9	628.5
130°	174.4	207.4	314.8	522.4	602.9
132.5°	180.1	216.5	314.8	498.3	577.3
135°	186.4	224.2	314.8	475.3	548.9
137.5°	194.3	231.2	315.4	451.2	519.4
140°	201.2	237.2	315.9	429.0	488.1
142.5°	209.1	242.9	316.5	410.0	459.1
145°	217.1	248.6	315.9	393.5	433.0
147.5°	225.6	253.7	314.8	379.3	409.7
150°	233.0	258.2	313.1	367.6	390.9
152.5°	240.9	262.8	310.8	357.7	376.2
155°	247.7	266.5	308.0	348.0	363.1
157.5°	254.0	270.2	305.1	339.0	351.2
160°	260.2	273.0	302.3	329.8	339.2
162.5°	265.4	275.9	298.9	321.6	328.4
165°	270.5	277.9	295.5	313.4	318.2
167.5°	273.9	279.0	292.1	305.7	308.5
170°	277.3	280.5	289.2	298.3	300.0
172.5°	279.6	281.0	285.8	292.4	292.1
175°	281.3	281.3	283.5	287.0	285.8
177.5°	282.4	281.3	281.8	283.5	281.8
180°	281.8	281.8	281.8	281.8	281.8

(END OF REPORT)