

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: P1027622

Luminaire Tested: S125DIP-B1270D375UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027622
REPORT IS A COMBINATION OF REPORTS P1001645 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D375UB27-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

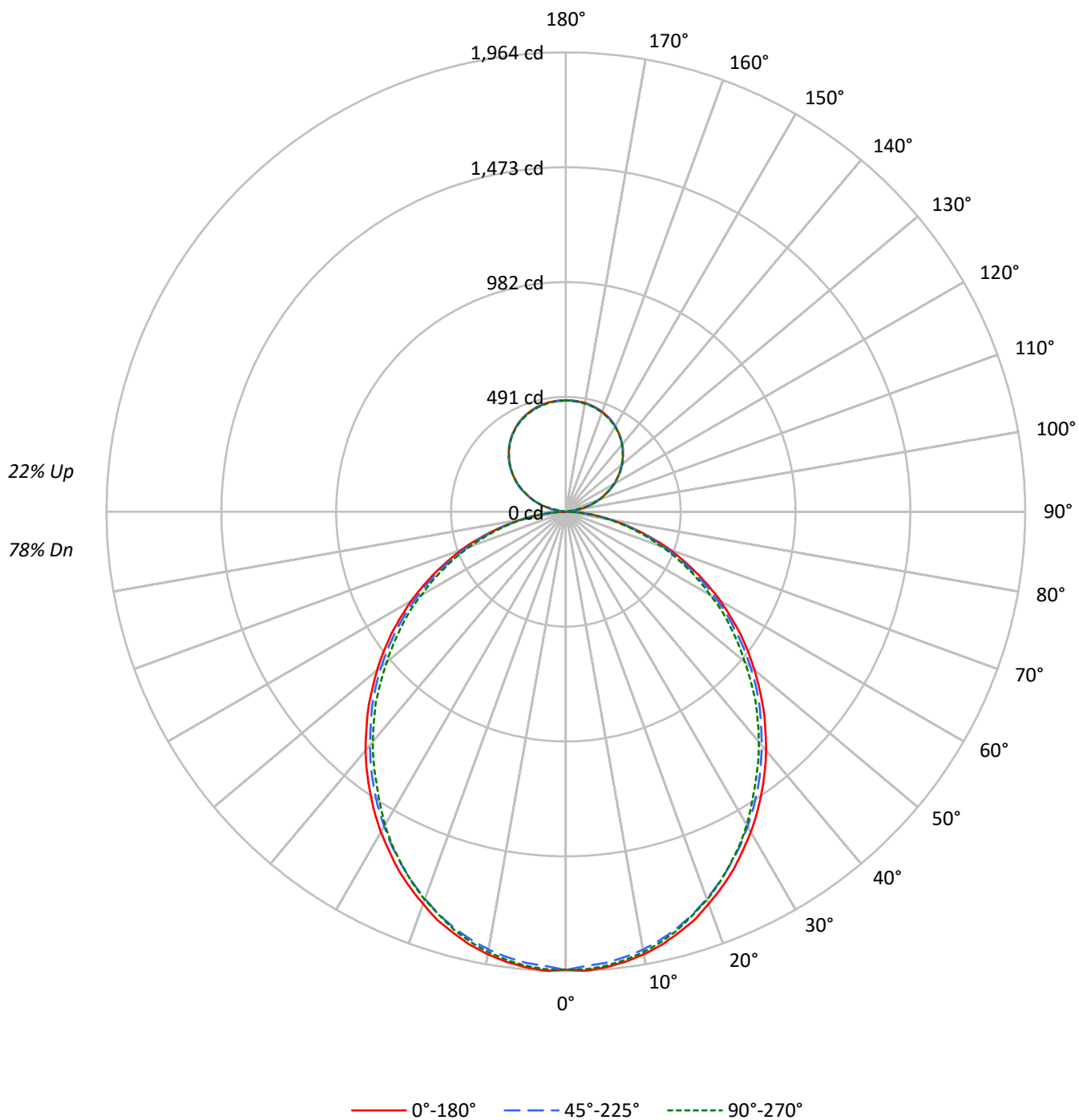
Lumens per Lamp: N/A
Luminaire Lumens: 6558.0 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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	50	30	10
RCR																				
0	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78		
1	104	99	95	92	99	95	91	88	87	84	81	79	77	75	72	70	69	65		
2	95	87	80	75	90	83	77	72	76	71	67	69	66	62	63	60	58	55		
3	86	76	69	62	82	73	66	60	67	61	57	61	57	53	56	52	49	46		
4	79	68	59	53	75	65	57	51	60	53	48	55	50	45	50	46	42	40		
5	73	60	52	46	69	58	50	44	53	47	42	49	44	39	45	41	37	34		
6	67	54	46	40	64	52	44	39	48	42	37	45	39	35	41	36	33	30		
7	62	49	41	35	59	47	40	34	44	37	32	41	35	31	38	33	29	27		
8	58	45	37	31	55	43	36	30	40	34	29	37	32	27	34	30	26	24		
9	54	41	33	28	51	40	32	27	37	31	26	34	29	25	32	27	24	22		
10	51	38	30	25	48	37	30	25	34	28	24	32	26	23	30	25	21	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12544	12544	12544
5°	12545	12253	12277
10°	12442	11972	11935
15°	12278	11637	11532
20°	12057	11247	11070
25°	11820	10822	10576
30°	11534	10379	10055
35°	11228	9915	9471
40°	10913	9424	8952
45°	10571	8946	8400
50°	10195	8404	7757
55°	9823	7806	7166
60°	9380	7176	6479
65°	8848	6446	5768
70°	8309	5607	4947
75°	7400	4617	4000
80°	6308	3449	2942
85°	4871	2039	1622

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10571 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.8	2.8
10°-20°	521.9	8.0
20°-30°	770.4	11.7
30°-40°	898.9	13.7
40°-50°	902.8	13.8
50°-60°	792.5	12.1
60°-70°	590.3	9.0
70°-80°	337.1	5.1
80°-90°	98.0	1.5
90°-100°	16.1	0.2
100°-110°	107.4	1.6
110°-120°	193.3	2.9
120°-130°	248.2	3.8
130°-140°	266.9	4.1
140°-150°	250.5	3.8
150°-160°	202.6	3.1
160°-170°	131.0	2.0
170°-180°	45.2	0.7
0°-30°	1477.1	22.5
0°-40°	2376.0	36.2
0°-60°	4071.3	62.1
0°-90°	5096.7	77.7
90°-120°	316.8	4.8
90°-150°	1082.4	16.5
90°-180°	1461.0	22.3
0°-180°	6558.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1958	1958	1958	1958	1958	
5°	1955	1952	1936	1950	1949	186
15°	1863	1859	1842	1850	1850	525
25°	1692	1684	1664	1667	1662	778
35°	1461	1454	1433	1425	1413	914
45°	1196	1190	1171	1152	1148	921
55°	911	906	884	870	860	813
65°	615	612	595	581	575	610
75°	327	324	316	311	305	348
85°	85	87	87	85	82	93
90°	0	3	6	7	8	7
95°	20	19	6	7	7	25
105°	104	105	105	105	105	110
115°	195	196	197	195	193	193
125°	277	279	279	278	277	247
135°	345	347	347	346	344	266
145°	400	401	401	401	399	250
155°	441	439	439	440	438	203
165°	465	463	463	466	463	131
175°	476	474	474	477	474	45
180°	476	476	476	476	476	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1957.9	1957.9	1957.9	1957.9	1957.9
2.5°	1964.1	1959.5	1944.0	1959.5	1957.9
5°	1954.8	1951.7	1936.2	1950.2	1948.6
7.5°	1940.9	1937.8	1920.8	1934.7	1933.1
10°	1920.8	1917.7	1900.6	1913.0	1911.5
12.5°	1896.0	1889.8	1874.3	1883.6	1883.6
15°	1863.4	1858.8	1841.8	1849.5	1849.5
17.5°	1829.4	1821.6	1804.6	1813.9	1806.1
20°	1784.4	1781.3	1761.2	1772.0	1764.3
22.5°	1739.5	1733.3	1714.7	1720.9	1716.3
25°	1691.5	1683.8	1663.6	1666.7	1662.1
27.5°	1635.7	1631.1	1611.0	1612.5	1607.9
30°	1581.5	1576.9	1553.6	1550.5	1545.9
32.5°	1522.7	1514.9	1494.8	1488.6	1479.3
35°	1460.7	1454.5	1432.8	1425.1	1412.7
37.5°	1397.2	1389.4	1369.3	1358.5	1350.7
40°	1332.1	1324.4	1302.7	1288.8	1284.1
42.5°	1262.4	1256.2	1234.5	1222.2	1214.4
45°	1195.8	1189.6	1171.0	1152.5	1147.8
47.5°	1123.0	1124.6	1101.3	1082.7	1071.9
50°	1053.3	1048.7	1030.1	1009.9	999.1
52.5°	982.1	979.0	958.8	941.8	929.4
55°	910.8	906.2	884.5	870.5	859.7
57.5°	834.9	833.4	814.8	796.2	791.5
60°	763.7	757.5	740.4	724.9	714.1
62.5°	689.3	684.7	670.7	653.7	645.9
65°	614.9	611.9	594.8	580.9	574.7
67.5°	542.1	536.0	523.6	511.2	508.1
70°	474.0	466.2	452.3	443.0	436.8
72.5°	399.6	395.0	387.2	376.4	370.2
75°	326.8	323.7	316.0	311.3	305.2
77.5°	258.7	257.1	252.5	249.4	244.7
80°	195.2	195.2	192.1	190.5	187.4
82.5°	139.4	136.3	136.3	133.2	133.2
85°	85.2	86.7	86.7	85.2	82.1
87.5°	41.8	41.8	40.3	40.3	37.2
90°	0.4	3.2	5.6	7.4	8.5
92.5°	6.7	3.5	5.6	7.4	7.8
95°	20.1	19.0	5.6	7.4	7.4
97.5°	37.7	39.8	6.3	7.1	7.4
100°	58.9	59.9	61.4	8.8	7.4
102.5°	80.4	81.8	82.5	83.2	53.6
105°	103.7	105.1	105.1	105.1	104.7
107.5°	127.7	127.7	128.4	128.7	127.3
110°	150.9	150.9	151.6	150.6	150.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	172.8	173.9	174.2	172.8	172.1
115°	194.7	196.4	196.8	195.4	193.2
117.5°	217.6	217.6	219.0	216.9	216.2
120°	238.7	238.4	239.4	238.7	237.0
122.5°	257.4	259.2	259.5	258.8	256.7
125°	276.8	279.3	279.3	277.9	276.8
127.5°	295.5	297.3	296.9	296.2	293.4
130°	312.4	314.2	314.6	313.5	311.7
132.5°	329.4	331.5	330.4	330.4	328.7
135°	345.2	347.4	346.6	345.9	343.8
137.5°	360.0	362.2	361.5	361.5	359.7
140°	374.5	375.2	374.9	375.6	373.4
142.5°	387.6	387.9	388.6	388.6	386.5
145°	400.2	401.0	401.0	401.3	399.2
147.5°	411.5	411.5	411.9	412.2	409.8
150°	422.1	421.4	422.1	422.8	420.0
152.5°	432.3	430.6	431.3	432.0	429.5
155°	440.8	438.7	439.4	440.5	437.6
157.5°	447.5	446.4	446.4	447.5	444.7
160°	454.6	452.4	452.8	454.2	451.4
162.5°	460.2	458.1	458.4	460.6	457.4
165°	465.1	463.0	463.4	465.5	462.7
167.5°	469.0	466.9	467.3	469.7	466.5
170°	472.2	469.7	470.1	472.9	469.7
172.5°	474.3	471.8	472.5	475.0	471.8
175°	475.7	473.6	474.0	476.8	473.6
177.5°	476.8	474.7	475.0	477.5	474.7
180°	475.7	475.7	475.7	475.7	475.7

(END OF REPORT)