

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: P1027623

Luminaire Tested: S125DIP-B1270D375UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027623
REPORT IS A COMBINATION OF REPORTS P1001646 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-F1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

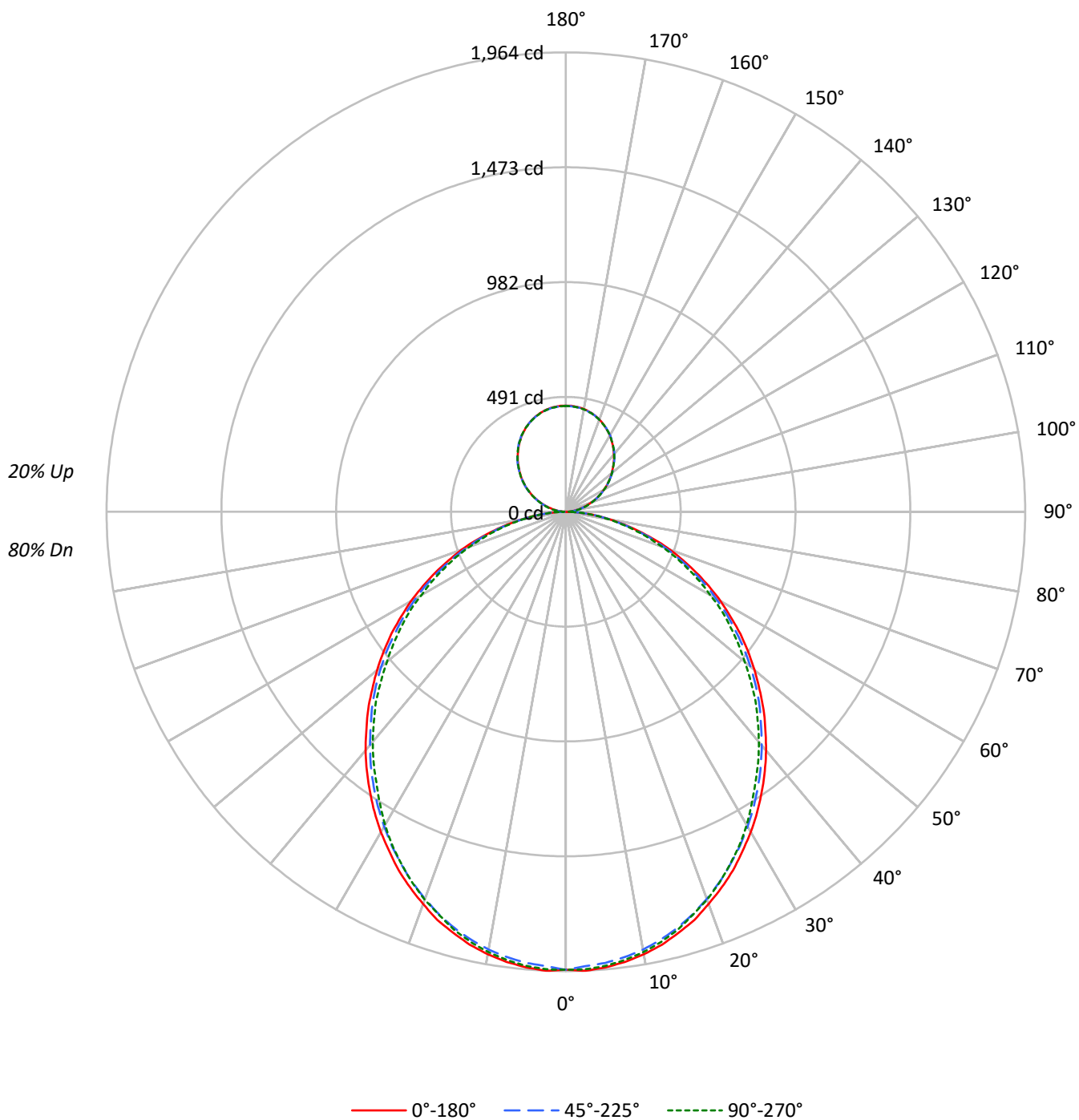
Lumens per Lamp: N/A
Luminaire Lumens: 6361.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	92	92	92	84	84	84
1	104	100	96	92	100	96	92	89	88	85	82	81	78	76	74	72	71
2	95	87	81	75	91	84	78	73	77	72	68	71	67	64	65	62	59
3	87	77	69	63	83	74	67	61	68	62	57	63	58	54	58	54	51
4	80	68	60	53	76	65	58	52	60	54	49	56	51	46	52	47	44
5	73	61	52	46	70	59	51	45	54	48	42	50	45	40	46	42	38
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	34
7	63	50	41	35	60	48	40	34	45	38	33	41	36	31	39	34	30
8	58	45	37	31	56	44	36	31	41	34	29	38	32	28	35	30	27
9	54	41	34	28	52	40	33	28	37	31	26	35	29	25	33	28	24
10	51	38	31	26	49	37	30	25	35	28	24	32	27	23	30	26	22

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	2.9
10°-20°	521.9	8.2
20°-30°	770.4	12.1
30°-40°	898.9	14.1
40°-50°	902.8	14.2
50°-60°	792.5	12.5
60°-70°	590.3	9.3
70°-80°	337.1	5.3
80°-90°	98.0	1.5
90°-100°	30.1	0.5
100°-110°	89.5	1.4
110°-120°	151.8	2.4
120°-130°	199.8	3.1
130°-140°	223.9	3.5
140°-150°	219.5	3.5
150°-160°	184.3	2.9
160°-170°	122.5	1.9
170°-180°	42.9	0.7
0°-30°	1477.1	23.2
0°-40°	2376.0	37.4
0°-60°	4071.3	64.0
0°-90°	5096.7	80.1
90°-120°	271.4	4.3
90°-150°	914.6	14.4
90°-180°	1264.0	19.9
0°-180°	6361.0	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°	23	24	27	30	30	24
105°	80	82	84	86	87	86
115°	152	153	154	154	153	150
125°	222	224	224	224	223	199
135°	288	290	291	291	289	222
145°	349	351	352	352	351	218
155°	400	400	400	402	400	184
165°	435	434	434	436	434	123
175°	452	450	450	453	450	43
180°	453	453	453	453	453	

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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°	10.6	12.3	15.5	18.0	18.7
95°	22.9	23.6	27.1	29.6	30.3
97.5°	35.3	35.6	40.5	42.7	43.0
100°	49.4	49.4	53.9	57.1	57.8
102.5°	64.5	66.3	68.0	71.6	72.6
105°	80.4	82.1	84.3	86.4	87.4
107.5°	97.7	99.4	101.2	102.2	102.2
110°	115.6	117.4	118.5	119.5	119.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	134.0	134.7	136.1	136.4	135.7
115°	151.9	153.4	154.1	153.7	153.4
117.5°	170.3	170.6	171.3	171.7	170.3
120°	187.2	189.0	189.3	189.3	187.9
122.5°	205.5	205.9	206.9	206.6	205.5
125°	221.7	223.9	224.2	223.5	223.2
127.5°	239.7	240.8	241.1	240.8	240.1
130°	255.6	257.3	258.1	257.7	257.0
132.5°	271.4	274.6	274.3	273.9	272.9
135°	288.4	290.5	290.8	290.8	289.4
137.5°	304.2	306.3	307.1	307.4	305.6
140°	319.4	321.2	322.2	322.9	321.2
142.5°	334.6	336.0	337.4	337.7	336.0
145°	349.4	350.8	351.8	351.8	350.8
147.5°	363.1	364.2	364.9	365.9	363.1
150°	376.9	376.5	377.9	377.9	377.2
152.5°	388.1	388.8	389.2	390.3	388.8
155°	399.8	399.8	400.1	401.5	399.8
157.5°	410.3	409.6	410.0	411.4	408.9
160°	419.5	418.5	418.8	420.2	418.5
162.5°	427.6	426.9	426.9	428.7	426.6
165°	434.7	434.0	434.3	435.7	433.6
167.5°	441.0	439.6	439.6	441.7	439.6
170°	446.0	444.5	444.5	446.7	444.2
172.5°	449.5	448.1	448.1	450.2	448.1
175°	451.9	450.5	450.5	452.7	450.2
177.5°	453.7	452.3	451.9	454.1	451.6
180°	453.0	453.0	453.0	453.0	453.0

(END OF REPORT)