

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: P1027641

Luminaire Tested: S125DIP-B1270D375UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027641
REPORT IS A COMBINATION OF REPORTS P1001679 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D375UB35-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

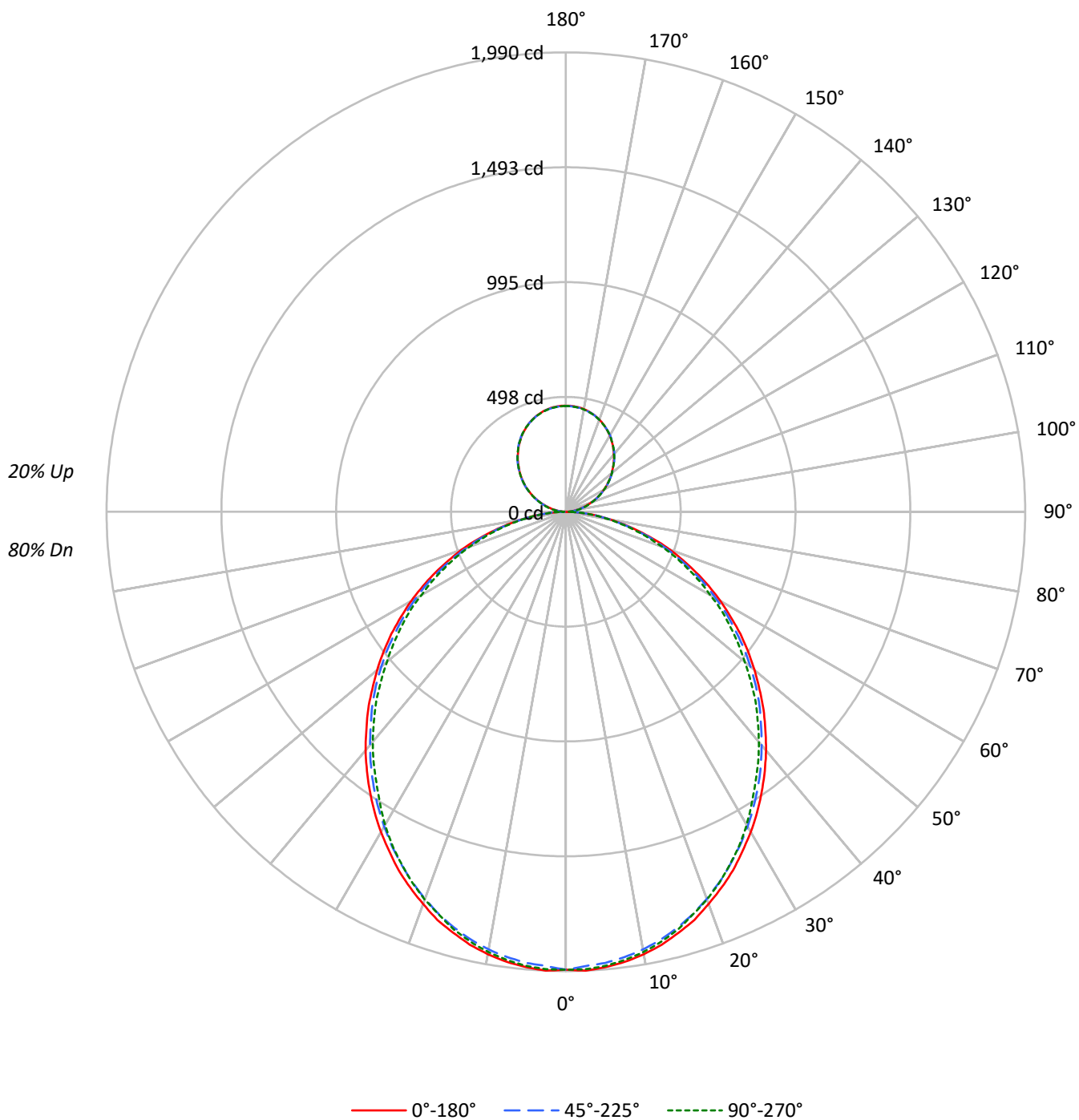
Lumens per Lamp: N/A
Luminaire Lumens: 6444.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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
RCR																	
0	114	114	114	114	109	109	109	109	100	100	100		92	92	92		84
1	104	100	96	92	100	96	92	89	88	85	82		81	78	76		74
2	95	87	81	75	91	84	78	73	77	72	68		71	67	64		65
3	87	77	69	63	83	74	67	61	68	62	57		63	58	54		58
4	80	68	60	53	76	65	58	52	60	54	49		56	51	46		52
5	73	61	52	46	70	59	51	45	54	48	42		50	45	40		46
6	68	55	46	40	64	53	45	39	49	42	37		45	40	35		42
7	63	50	41	35	60	48	40	34	45	38	33		41	36	31		39
8	58	45	37	31	56	44	36	31	41	34	29		38	32	28		35
9	54	41	34	28	52	40	33	28	37	31	26		35	29	25		33
10	51	38	31	26	49	37	30	25	35	28	24		32	27	23		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12710	12710	12710
5°	12710	12415	12439
10°	12605	12130	12092
15°	12439	11790	11684
20°	12216	11395	11216
25°	11975	10964	10715
30°	11686	10516	10187
35°	11376	10046	9595
40°	11056	9548	9069
45°	10710	9064	8511
50°	10330	8515	7859
55°	9953	7909	7261
60°	9503	7270	6564
65°	8964	6530	5843
70°	8417	5681	5012
75°	7497	4677	4053
80°	6389	3494	2981
85°	4934	2067	1644

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10710 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	2.9
10°-20°	528.7	8.2
20°-30°	780.6	12.1
30°-40°	910.7	14.1
40°-50°	914.7	14.2
50°-60°	802.9	12.5
60°-70°	598.0	9.3
70°-80°	341.6	5.3
80°-90°	99.3	1.5
90°-100°	30.5	0.5
100°-110°	90.6	1.4
110°-120°	153.7	2.4
120°-130°	202.3	3.1
130°-140°	226.7	3.5
140°-150°	222.2	3.4
150°-160°	186.7	2.9
160°-170°	124.1	1.9
170°-180°	43.4	0.7
0°-30°	1496.5	23.2
0°-40°	2407.2	37.4
0°-60°	4124.8	64.0
0°-90°	5163.7	80.1
90°-120°	274.8	4.3
90°-150°	926.1	14.4
90°-180°	1280.0	19.9
0°-180°	6444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1984	1984	1984	1984	1984	
5°	1980	1977	1962	1976	1974	188
15°	1888	1883	1866	1874	1874	532
25°	1714	1706	1686	1689	1684	789
35°	1480	1474	1452	1444	1431	926
45°	1212	1205	1186	1168	1163	933
55°	923	918	896	882	871	824
65°	623	620	603	588	582	618
75°	331	328	320	315	309	353
85°	86	88	88	86	83	95
90°	0	3	6	8	9	7
95°	23	24	28	30	31	24
105°	81	83	85	88	88	87
115°	154	155	156	156	155	152
125°	224	227	227	226	226	201
135°	292	294	294	294	293	225
145°	354	355	356	356	355	221
155°	405	405	405	407	405	186
165°	440	440	440	441	439	124
175°	458	456	456	458	456	43
180°	459	459	459	459	459	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1983.7	1983.7	1983.7	1983.7	1983.7
2.5°	1989.9	1985.2	1969.5	1985.2	1983.7
5°	1980.5	1977.4	1961.7	1975.8	1974.3
7.5°	1966.4	1963.3	1946.0	1960.1	1958.6
10°	1946.0	1942.9	1925.6	1938.2	1936.6
12.5°	1920.9	1914.6	1898.9	1908.3	1908.3
15°	1887.9	1883.2	1866.0	1873.8	1873.8
17.5°	1853.4	1845.6	1828.3	1837.7	1829.9
20°	1807.9	1804.8	1784.4	1795.3	1787.5
22.5°	1762.4	1756.1	1737.3	1743.6	1738.8
25°	1713.7	1705.9	1685.5	1688.6	1683.9
27.5°	1657.2	1652.5	1632.1	1633.7	1629.0
30°	1602.3	1597.6	1574.1	1570.9	1566.2
32.5°	1542.7	1534.8	1514.4	1508.2	1498.7
35°	1479.9	1473.6	1451.7	1443.8	1431.3
37.5°	1415.6	1407.7	1387.3	1376.3	1368.5
40°	1349.6	1341.8	1319.8	1305.7	1301.0
42.5°	1279.0	1272.7	1250.8	1238.2	1230.4
45°	1211.5	1205.3	1186.4	1167.6	1162.9
47.5°	1137.8	1139.4	1115.8	1097.0	1086.0
50°	1067.2	1062.5	1043.6	1023.2	1012.2
52.5°	995.0	991.8	971.4	954.2	941.6
55°	922.8	918.1	896.1	882.0	871.0
57.5°	845.9	844.3	825.5	806.6	801.9
60°	773.7	767.4	750.2	734.5	723.5
62.5°	698.4	693.7	679.5	662.3	654.4
65°	623.0	619.9	602.6	588.5	582.2
67.5°	549.3	543.0	530.4	517.9	514.7
70°	480.2	472.4	458.3	448.8	442.6
72.5°	404.9	400.2	392.3	381.4	375.1
75°	331.1	328.0	320.1	315.4	309.2
77.5°	262.1	260.5	255.8	252.7	248.0
80°	197.7	197.7	194.6	193.0	189.9
82.5°	141.2	138.1	138.1	135.0	135.0
85°	86.3	87.9	87.9	86.3	83.2
87.5°	42.4	42.4	40.8	40.8	37.7
90°	0.4	3.2	5.7	7.5	8.6
92.5°	10.7	12.5	15.7	18.2	18.9
95°	23.2	23.9	27.5	30.0	30.7
97.5°	35.7	36.1	41.1	43.2	43.6
100°	50.0	50.0	54.6	57.8	58.5
102.5°	65.3	67.1	68.9	72.5	73.5
105°	81.4	83.2	85.3	87.5	88.5
107.5°	98.9	100.7	102.5	103.5	103.5
110°	117.1	118.9	119.9	121.0	120.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.7	136.4	137.8	138.2	137.4
115°	153.9	155.3	156.0	155.6	155.3
117.5°	172.4	172.8	173.5	173.9	172.4
120°	189.6	191.3	191.7	191.7	190.3
122.5°	208.1	208.5	209.6	209.2	208.1
125°	224.5	226.7	227.0	226.3	226.0
127.5°	242.8	243.8	244.2	243.8	243.1
130°	258.8	260.6	261.3	261.0	260.2
132.5°	274.9	278.1	277.7	277.4	276.3
135°	292.0	294.2	294.5	294.5	293.1
137.5°	308.1	310.2	310.9	311.3	309.5
140°	323.4	325.2	326.3	327.0	325.2
142.5°	338.8	340.2	341.6	342.0	340.2
145°	353.8	355.2	356.3	356.3	355.2
147.5°	367.7	368.8	369.5	370.6	367.7
150°	381.6	381.3	382.7	382.7	382.0
152.5°	393.0	393.8	394.1	395.2	393.8
155°	404.8	404.8	405.2	406.6	404.8
157.5°	415.5	414.8	415.2	416.6	414.1
160°	424.8	423.7	424.1	425.5	423.7
162.5°	433.0	432.3	432.3	434.1	432.0
165°	440.2	439.5	439.8	441.2	439.1
167.5°	446.6	445.2	445.2	447.3	445.2
170°	451.6	450.2	450.2	452.3	449.8
172.5°	455.2	453.7	453.7	455.9	453.7
175°	457.7	456.2	456.2	458.4	455.9
177.5°	459.4	458.0	457.7	459.8	457.3
180°	458.7	458.7	458.7	458.7	458.7

(END OF REPORT)