

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: P1027552

Luminaire Tested: S125DIP-B1270D1090UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027552
REPORT IS A COMBINATION OF REPORTS P1001560 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1090UB35-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

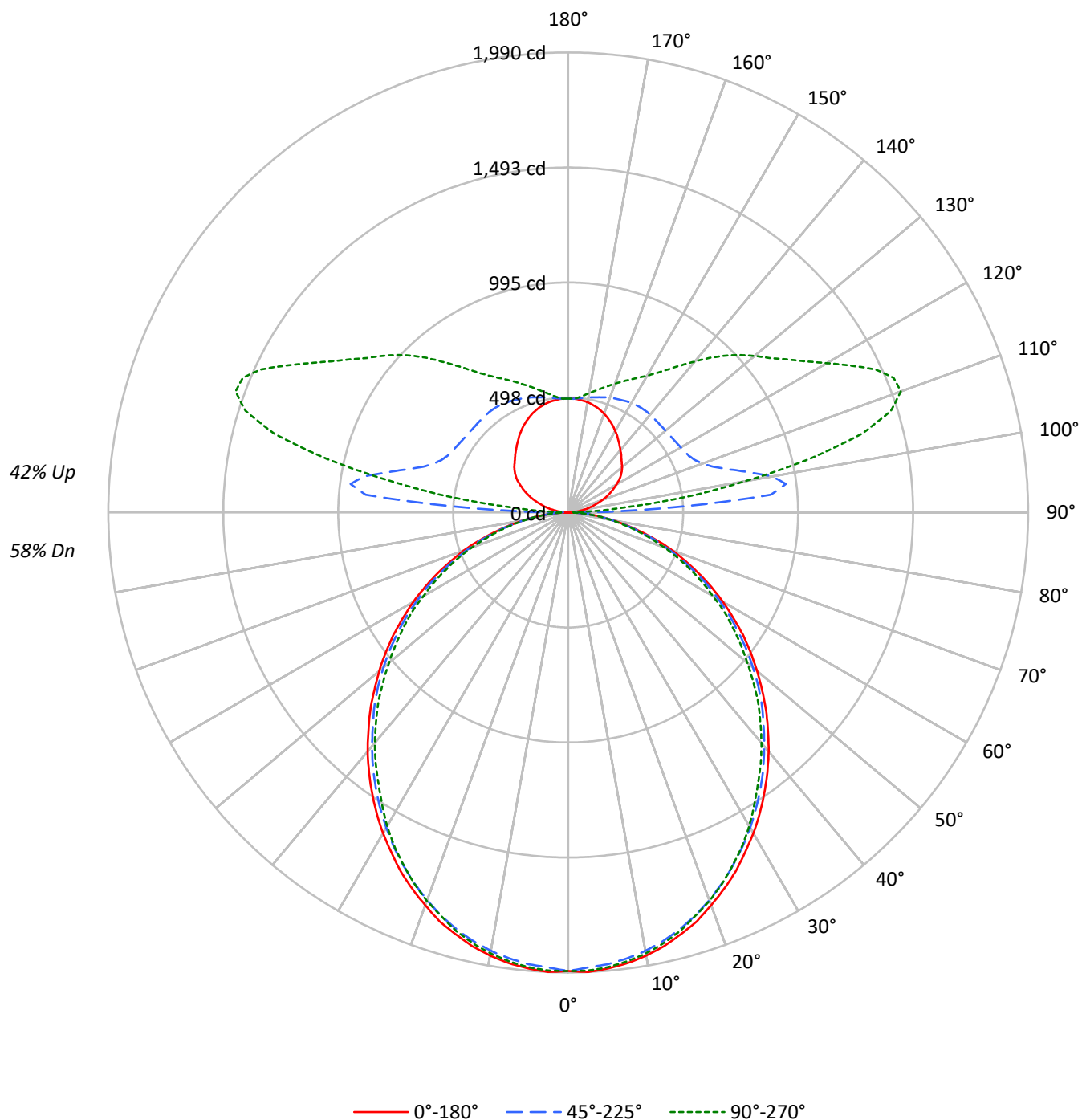
Lumens per Lamp: N/A
Luminaire Lumens: 8870.6 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64
1	100	95	91	88	93	89	85	82	77	74	72	66	64	63	56	55	54
2	91	83	77	72	84	78	72	67	67	63	60	58	55	52	49	47	45
3	83	73	66	60	77	68	62	56	59	54	50	51	47	44	44	41	38
4	76	65	57	50	70	61	53	48	53	47	43	46	41	38	39	36	33
5	69	58	49	43	64	54	47	41	47	41	37	41	36	33	35	32	29
6	64	52	43	38	59	49	41	36	43	37	32	37	32	29	32	28	25
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18
10	48	36	28	23	45	34	27	22	30	24	20	26	22	19	23	19	17

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	2.1
10°-20°	528.7	6.0
20°-30°	780.6	8.8
30°-40°	910.7	10.3
40°-50°	914.7	10.3
50°-60°	802.9	9.1
60°-70°	598.0	6.7
70°-80°	341.6	3.9
80°-90°	100.6	1.1
90°-100°	370.8	4.2
100°-110°	770.1	8.7
110°-120°	719.3	8.1
120°-130°	582.1	6.6
130°-140°	467.7	5.3
140°-150°	353.0	4.0
150°-160°	248.5	2.8
160°-170°	146.5	1.7
170°-180°	47.6	0.5
0°-30°	1496.5	16.9
0°-40°	2407.2	27.1
0°-60°	4124.8	46.5
0°-90°	5165.0	58.2
90°-120°	1860.2	21.0
90°-150°	3263.0	36.8
90°-180°	3706.0	41.8
0°-180°	8870.6	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°	1	9	16	21	23	8
95°	33	97	880	399	233	34
105°	112	157	720	1417	1315	118
115°	200	242	578	1245	1465	197
125°	278	326	554	991	1154	247
135°	326	392	550	830	959	253
145°	379	434	552	687	756	238
155°	433	466	538	608	634	199
165°	472	485	516	547	556	133
175°	491	491	495	501	499	47
180°	492	492	492	492	492	

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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°	1.0	8.9	15.9	20.8	22.8
92.5°	14.9	81.4	396.1	105.7	73.5
95°	32.8	96.8	879.5	399.0	233.3
97.5°	50.6	104.7	950.0	720.7	511.2
100°	69.5	120.1	896.4	1018.4	774.3
102.5°	90.3	137.5	802.1	1270.6	1068.1
105°	112.2	156.8	719.7	1417.0	1315.3
107.5°	133.0	177.2	658.1	1458.2	1464.2
110°	155.8	198.5	617.4	1419.0	1531.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.7	219.9	593.6	1337.1	1523.7
115°	200.5	241.7	577.7	1245.3	1465.1
117.5°	220.4	264.0	568.8	1161.9	1376.8
120°	240.2	285.4	562.8	1091.9	1291.4
122.5°	261.1	306.2	557.9	1035.8	1216.0
125°	277.9	325.6	553.9	990.6	1154.4
127.5°	291.8	344.4	551.9	952.0	1097.9
130°	304.7	362.3	549.9	912.8	1053.2
132.5°	314.7	378.2	549.9	870.6	1008.5
135°	325.6	391.6	549.9	830.4	958.9
137.5°	339.5	404.0	550.9	788.2	907.3
140°	351.4	414.4	551.9	749.4	852.7
142.5°	365.3	424.4	552.9	716.2	802.1
145°	379.2	434.3	551.9	687.4	756.4
147.5°	394.1	443.2	549.9	662.6	715.7
150°	407.0	451.2	546.9	642.2	682.9
152.5°	420.9	459.1	543.0	624.8	657.1
155°	432.8	465.6	538.0	608.0	634.3
157.5°	443.7	472.0	533.0	592.1	613.5
160°	454.6	477.0	528.1	576.2	592.6
162.5°	463.6	482.0	522.1	561.8	573.7
165°	472.5	485.4	516.2	547.4	555.9
167.5°	478.5	487.4	510.2	534.0	539.0
170°	484.4	489.9	505.3	521.1	524.1
172.5°	488.4	490.9	499.3	510.7	510.2
175°	491.4	491.4	495.3	501.3	499.3
177.5°	493.3	491.4	492.4	495.3	492.4
180°	492.4	492.4	492.4	492.4	492.4

(END OF REPORT)