

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: P1027543

Luminaire Tested: S125DIP-B1270D1090UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027543
REPORT IS A COMBINATION OF REPORTS P1001551 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1090UB30-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

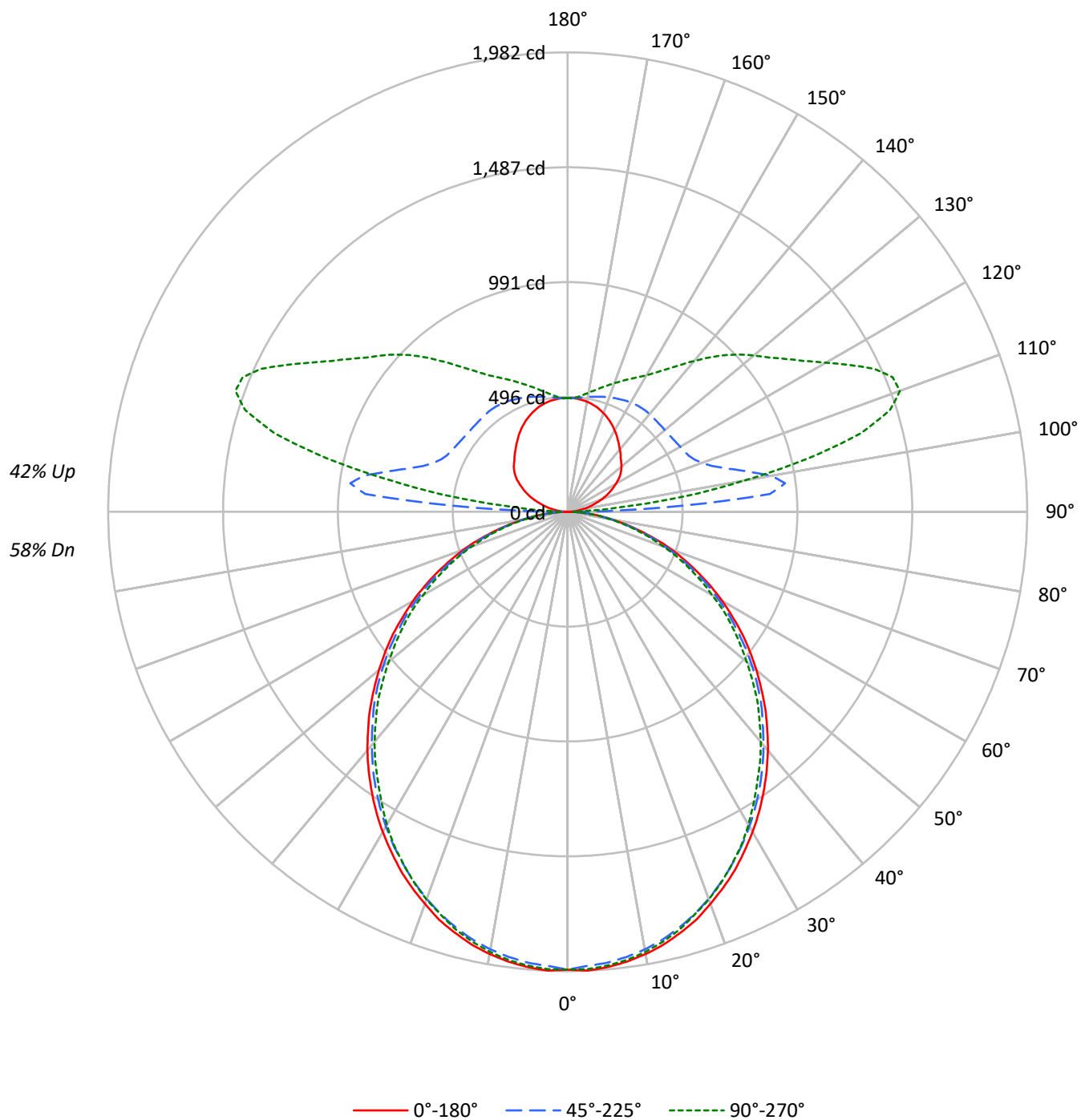
Lumens per Lamp: N/A
Luminaire Lumens: 8832.5 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	12655	12655	12655
5°	12656	12362	12385
10°	12551	12078	12040
15°	12387	11739	11634
20°	12164	11346	11168
25°	11924	10918	10669
30°	11636	10471	10143
35°	11328	10003	9554
40°	11009	9508	9031
45°	10665	9026	8474
50°	10285	8479	7826
55°	9911	7875	7230
60°	9462	7239	6536
65°	8927	6503	5819
70°	8382	5657	4991
75°	7465	4658	4035
80°	6363	3480	2969
85°	4911	2057	1636

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10665 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.4	2.1
10°-20°	526.5	6.0
20°-30°	777.2	8.8
30°-40°	906.8	10.3
40°-50°	910.8	10.3
50°-60°	799.5	9.1
60°-70°	595.5	6.7
70°-80°	340.1	3.9
80°-90°	100.1	1.1
90°-100°	369.2	4.2
100°-110°	766.8	8.7
110°-120°	716.2	8.1
120°-130°	579.6	6.6
130°-140°	465.6	5.3
140°-150°	351.5	4.0
150°-160°	247.5	2.8
160°-170°	145.9	1.7
170°-180°	47.4	0.5
0°-30°	1490.1	16.9
0°-40°	2396.9	27.1
0°-60°	4107.2	46.5
0°-90°	5143.0	58.2
90°-120°	1852.2	21.0
90°-150°	3248.8	36.8
90°-180°	3690.0	41.8
0°-180°	8832.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1975	1975	1975	1975	1975	
5°	1972	1969	1953	1967	1966	187
15°	1880	1875	1858	1866	1866	530
25°	1706	1699	1678	1681	1677	785
35°	1474	1467	1446	1438	1425	922
45°	1206	1200	1181	1163	1158	929
55°	919	914	892	878	867	820
65°	620	617	600	586	580	615
75°	330	327	319	314	308	351
85°	86	88	88	86	83	94
90°	1	9	16	21	23	8
95°	33	96	876	397	232	34
105°	112	156	717	1411	1310	118
115°	200	241	575	1240	1459	197
125°	277	324	552	986	1150	246
135°	324	390	548	827	955	252
145°	378	432	550	684	753	237
155°	431	464	536	605	632	198
165°	470	483	514	545	554	133
175°	489	489	493	499	497	46
180°	490	490	490	490	490	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1975.2	1975.2	1975.2	1975.2	1975.2
2.5°	1981.5	1976.8	1961.2	1976.8	1975.2
5°	1972.1	1969.0	1953.3	1967.4	1965.8
7.5°	1958.0	1954.9	1937.7	1951.8	1950.2
10°	1937.7	1934.6	1917.4	1929.9	1928.3
12.5°	1912.7	1906.5	1890.8	1900.2	1900.2
15°	1879.9	1875.2	1858.0	1865.8	1865.8
17.5°	1845.5	1837.7	1820.5	1829.9	1822.1
20°	1800.2	1797.1	1776.8	1787.7	1779.9
22.5°	1754.9	1748.6	1729.9	1736.1	1731.4
25°	1706.4	1698.6	1678.3	1681.4	1676.7
27.5°	1650.2	1645.5	1625.2	1626.7	1622.1
30°	1595.5	1590.8	1567.4	1564.2	1559.5
32.5°	1536.1	1528.3	1508.0	1501.7	1492.4
35°	1473.6	1467.3	1445.5	1437.7	1425.2
37.5°	1409.5	1401.7	1381.4	1370.5	1362.6
40°	1343.9	1336.1	1314.2	1300.1	1295.5
42.5°	1273.6	1267.3	1245.4	1232.9	1225.1
45°	1206.4	1200.1	1181.4	1162.6	1157.9
47.5°	1132.9	1134.5	1111.1	1092.3	1081.4
50°	1062.6	1057.9	1039.2	1018.9	1007.9
52.5°	990.7	987.6	967.3	950.1	937.6
55°	918.9	914.2	892.3	878.2	867.3
57.5°	842.3	840.7	822.0	803.2	798.5
60°	770.4	764.1	747.0	731.3	720.4
62.5°	695.4	690.7	676.6	659.4	651.6
65°	620.4	617.3	600.1	586.0	579.8
67.5°	546.9	540.7	528.2	515.7	512.6
70°	478.2	470.4	456.3	446.9	440.7
72.5°	403.2	398.5	390.7	379.7	373.5
75°	329.7	326.6	318.8	314.1	307.8
77.5°	261.0	259.4	254.7	251.6	246.9
80°	196.9	196.9	193.8	192.2	189.1
82.5°	140.6	137.5	137.5	134.4	134.4
85°	85.9	87.5	87.5	85.9	82.8
87.5°	42.2	42.2	40.6	40.6	37.5
90°	1.0	8.9	15.8	20.8	22.7
92.5°	14.8	81.0	394.4	105.2	73.1
95°	32.6	96.4	875.7	397.3	232.3
97.5°	50.4	104.3	945.9	717.5	509.0
100°	69.2	119.6	892.5	1014.0	770.9
102.5°	89.9	136.9	798.6	1265.1	1063.5
105°	111.7	156.2	716.6	1410.8	1309.6
107.5°	132.4	176.4	655.3	1451.8	1457.8
110°	155.2	197.6	614.8	1412.8	1525.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	177.9	219.0	591.0	1331.3	1517.1
115°	199.6	240.6	575.2	1239.9	1458.8
117.5°	219.4	262.9	566.3	1156.9	1370.8
120°	239.2	284.2	560.4	1087.2	1285.8
122.5°	259.9	305.0	555.5	1031.4	1210.7
125°	276.7	324.2	551.5	986.4	1149.5
127.5°	290.6	343.0	549.5	947.8	1093.1
130°	303.4	360.8	547.5	908.8	1048.6
132.5°	313.3	376.5	547.5	866.8	1004.2
135°	324.2	389.9	547.5	826.8	954.7
137.5°	338.0	402.2	548.5	784.8	903.4
140°	349.9	412.6	549.5	746.2	849.0
142.5°	363.7	422.6	550.5	713.1	798.6
145°	377.6	432.4	549.5	684.4	753.1
147.5°	392.4	441.3	547.5	659.7	712.6
150°	405.2	449.2	544.6	639.5	680.0
152.5°	419.1	457.1	540.6	622.2	654.3
155°	430.9	463.6	535.7	605.3	631.6
157.5°	441.8	470.0	530.7	589.6	610.8
160°	452.7	475.0	525.8	573.8	590.0
162.5°	461.6	479.8	519.9	559.4	571.3
165°	470.5	483.3	513.9	545.0	553.5
167.5°	476.4	485.3	508.0	531.8	536.7
170°	482.3	487.8	503.1	518.9	521.8
172.5°	486.3	488.7	497.1	508.5	508.0
175°	489.2	489.2	493.2	499.1	497.1
177.5°	491.2	489.2	490.2	493.2	490.2
180°	490.2	490.2	490.2	490.2	490.2

(END OF REPORT)