

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: P1027632

Luminaire Tested: S125DIP-B1270D375UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027632
REPORT IS A COMBINATION OF REPORTS P1001670 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D375UB30-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

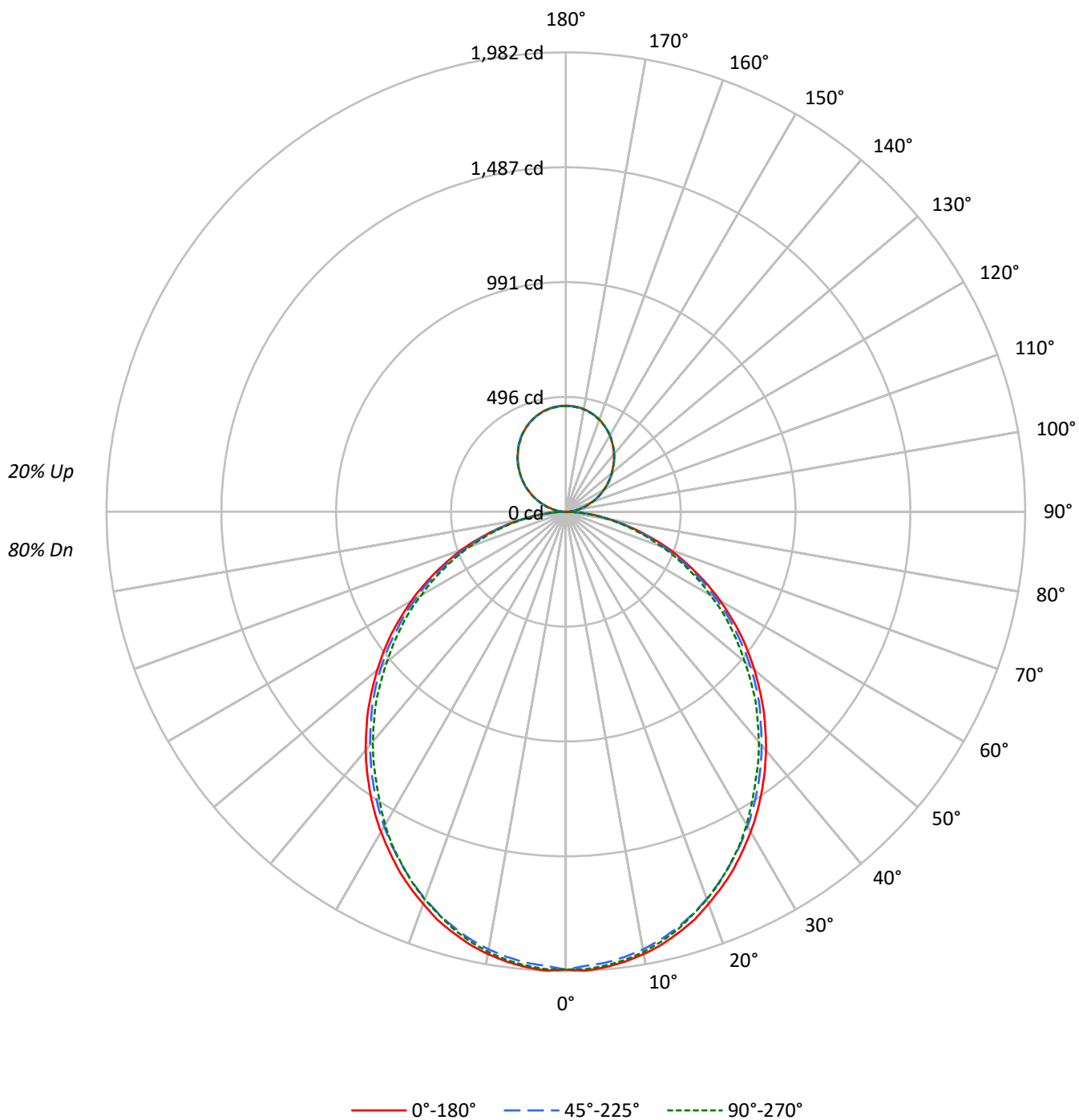
Lumens per Lamp: N/A
Luminaire Lumens: 6417.0 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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
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°	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	2.9
10°-20°	526.5	8.2
20°-30°	777.2	12.1
30°-40°	906.8	14.1
40°-50°	910.8	14.2
50°-60°	799.5	12.5
60°-70°	595.5	9.3
70°-80°	340.1	5.3
80°-90°	98.9	1.5
90°-100°	30.4	0.5
100°-110°	90.3	1.4
110°-120°	153.1	2.4
120°-130°	201.5	3.1
130°-140°	225.8	3.5
140°-150°	221.4	3.4
150°-160°	185.9	2.9
160°-170°	123.6	1.9
170°-180°	43.3	0.7
0°-30°	1490.1	23.2
0°-40°	2396.9	37.4
0°-60°	4107.2	64.0
0°-90°	5141.7	80.1
90°-120°	273.8	4.3
90°-150°	922.5	14.4
90°-180°	1275.0	19.9
0°-180°	6417.0	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°	0	3	6	8	8	7
95°	23	24	27	30	31	24
105°	81	83	85	87	88	86
115°	153	155	155	155	155	152
125°	224	226	226	225	225	200
135°	291	293	293	293	292	224
145°	352	354	355	355	354	220
155°	403	403	404	405	403	186
165°	438	438	438	440	437	124
175°	456	454	454	457	454	43
180°	457	457	457	457	457	

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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°	0.4	3.2	5.7	7.5	8.5
92.5°	10.7	12.4	15.6	18.1	18.8
95°	23.1	23.8	27.4	29.9	30.6
97.5°	35.6	35.9	40.9	43.0	43.4
100°	49.8	49.8	54.4	57.6	58.3
102.5°	65.1	66.9	68.6	72.2	73.3
105°	81.1	82.9	85.0	87.1	88.2
107.5°	98.5	100.3	102.1	103.1	103.1
110°	116.6	118.4	119.5	120.5	120.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.1	135.8	137.3	137.6	136.9
115°	153.3	154.7	155.4	155.0	154.7
117.5°	171.8	172.1	172.8	173.2	171.8
120°	188.8	190.6	191.0	191.0	189.5
122.5°	207.3	207.7	208.7	208.4	207.3
125°	223.7	225.8	226.2	225.4	225.1
127.5°	241.8	242.9	243.2	242.9	242.2
130°	257.8	259.6	260.3	259.9	259.2
132.5°	273.8	277.0	276.7	276.3	275.2
135°	290.9	293.0	293.4	293.4	291.9
137.5°	306.9	309.0	309.7	310.1	308.3
140°	322.2	323.9	325.0	325.7	323.9
142.5°	337.5	338.9	340.3	340.7	338.9
145°	352.4	353.8	354.9	354.9	353.8
147.5°	366.3	367.3	368.0	369.1	366.3
150°	380.1	379.8	381.2	381.2	380.5
152.5°	391.5	392.2	392.6	393.6	392.2
155°	403.2	403.2	403.6	405.0	403.2
157.5°	413.9	413.2	413.6	415.0	412.5
160°	423.2	422.1	422.4	423.9	422.1
162.5°	431.3	430.6	430.6	432.4	430.3
165°	438.5	437.7	438.1	439.5	437.4
167.5°	444.9	443.4	443.4	445.6	443.4
170°	449.8	448.4	448.4	450.5	448.1
172.5°	453.4	452.0	452.0	454.1	452.0
175°	455.9	454.5	454.5	456.6	454.1
177.5°	457.7	456.2	455.9	458.0	455.5
180°	456.9	456.9	456.9	456.9	456.9

(END OF REPORT)