

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: P1027633

Luminaire Tested: S125DIP-B1270D375UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027633
REPORT IS A COMBINATION OF REPORTS P1001671 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-F4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

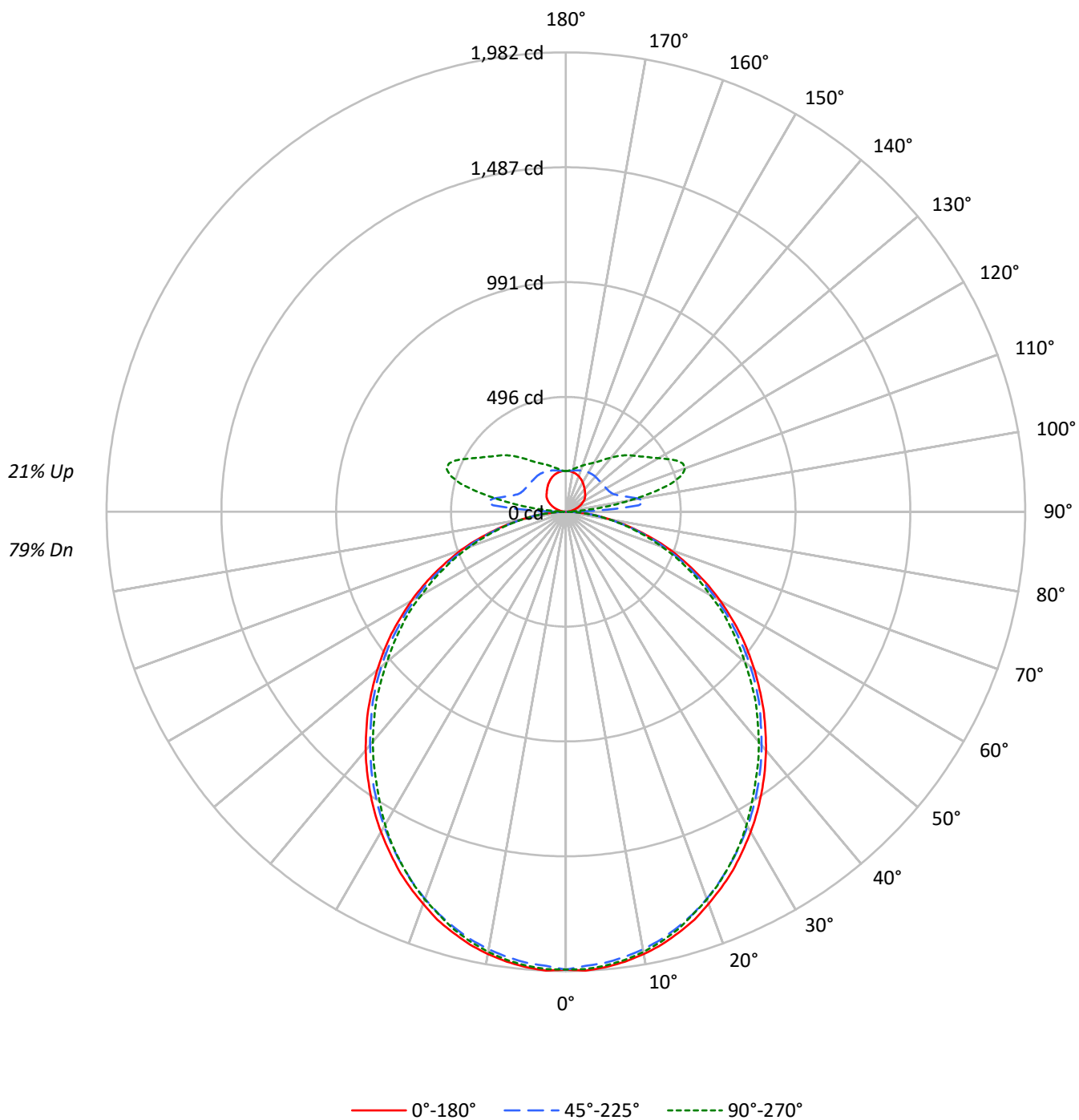
Lumens per Lamp: N/A
Luminaire Lumens: 6468.7 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	91	91	91	83	83	83
1	104	100	96	92	100	95	92	89	88	85	82	80	78	76	73	72	70
2	95	87	81	75	90	83	78	73	77	72	68	70	67	63	65	62	59
3	87	77	69	63	83	74	66	61	68	62	57	62	58	54	57	53	50
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43
5	73	61	52	46	69	58	50	45	54	47	42	50	44	40	46	41	38
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33
7	62	50	41	35	60	48	40	34	44	38	33	41	35	31	38	33	30
8	58	45	37	31	55	44	36	31	41	34	29	38	32	28	35	30	27
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24
10	51	38	31	25	49	37	30	25	35	28	24	32	27	23	30	25	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	8.1
20°-30°	777.2	12.0
30°-40°	906.8	14.0
40°-50°	910.8	14.1
50°-60°	799.5	12.4
60°-70°	595.5	9.2
70°-80°	340.1	5.3
80°-90°	98.9	1.5
90°-100°	132.8	2.1
100°-110°	275.8	4.3
110°-120°	257.6	4.0
120°-130°	208.4	3.2
130°-140°	167.5	2.6
140°-150°	126.4	2.0
150°-160°	89.0	1.4
160°-170°	52.5	0.8
170°-180°	17.1	0.3
0°-30°	1490.1	23.0
0°-40°	2396.9	37.1
0°-60°	4107.2	63.5
0°-90°	5141.7	79.5
90°-120°	666.2	10.3
90°-150°	1168.5	18.1
90°-180°	1327.0	20.5
0°-180°	6468.7	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	7	8	7
95°	12	35	315	143	84	12
105°	40	56	258	507	471	42
115°	72	87	207	446	525	71
125°	100	117	198	355	413	88
135°	117	140	197	297	343	90
145°	136	156	198	246	271	85
155°	155	167	193	218	227	71
165°	169	174	185	196	199	48
175°	176	176	177	180	179	17
180°	176	176	176	176	176	

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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	7.4	8.2
92.5°	5.3	29.2	141.8	37.8	26.3
95°	11.7	34.7	314.9	142.9	83.5
97.5°	18.1	37.5	340.2	258.0	183.1
100°	24.9	43.0	321.0	364.7	277.3
102.5°	32.3	49.2	287.2	455.0	382.5
105°	40.2	56.2	257.7	507.4	471.0
107.5°	47.6	63.4	235.7	522.2	524.3
110°	55.8	71.1	221.1	508.2	548.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	64.0	78.8	212.6	478.8	545.7
115°	71.8	86.6	206.9	446.0	524.7
117.5°	78.9	94.6	203.7	416.1	493.0
120°	86.0	102.2	201.6	391.0	462.5
122.5°	93.5	109.6	199.8	370.9	435.5
125°	99.5	116.6	198.4	354.8	413.4
127.5°	104.5	123.4	197.6	340.9	393.2
130°	109.1	129.8	196.9	326.8	377.2
132.5°	112.7	135.4	196.9	311.8	361.2
135°	116.6	140.2	196.9	297.4	343.4
137.5°	121.6	144.7	197.3	282.2	324.9
140°	125.8	148.4	197.6	268.4	305.4
142.5°	130.8	152.0	198.0	256.5	287.2
145°	135.8	155.5	197.6	246.2	270.9
147.5°	141.1	158.8	196.9	237.2	256.3
150°	145.7	161.6	195.9	230.0	244.6
152.5°	150.7	164.4	194.4	223.8	235.3
155°	155.0	166.7	192.7	217.8	227.1
157.5°	158.9	169.0	190.9	212.0	219.7
160°	162.8	170.8	189.1	206.4	212.2
162.5°	166.0	172.6	187.0	201.2	205.5
165°	169.2	173.9	184.8	196.0	199.1
167.5°	171.3	174.5	182.7	191.2	193.0
170°	173.5	175.4	180.9	186.6	187.7
172.5°	174.9	175.8	178.8	182.9	182.7
175°	176.0	176.0	177.4	179.5	178.8
177.5°	176.7	176.0	176.3	177.4	176.3
180°	176.3	176.3	176.3	176.3	176.3

(END OF REPORT)