

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: P1027141

Luminaire Tested: S125RDIP-B1270D610UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027141
REPORT IS A COMBINATION OF REPORTS P1005252 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1270D610UB2750-4F0-XX-W2A-F_3500K
Description: Define 5 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

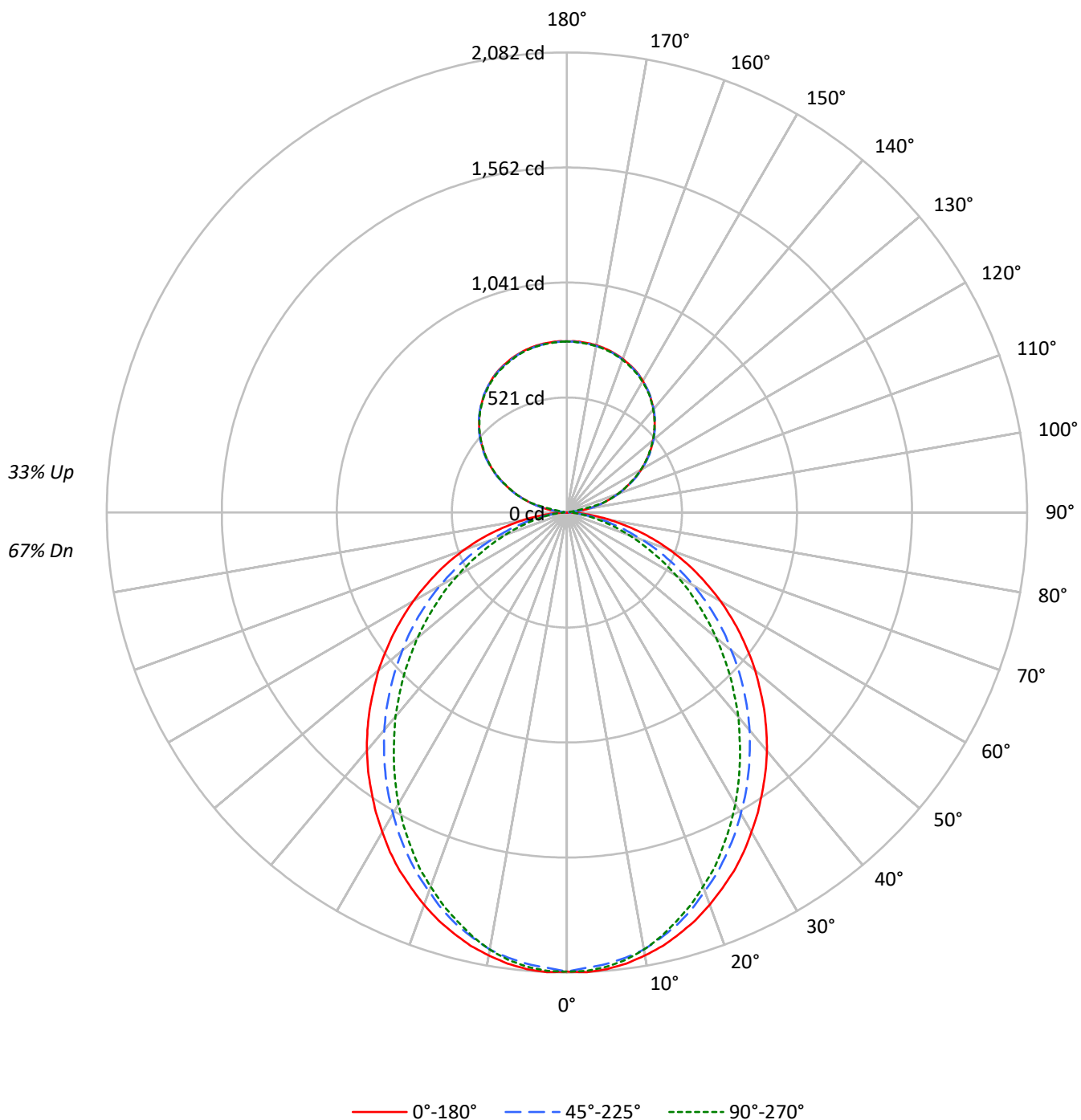
Lumens per Lamp: N/A
Luminaire Lumens: 7289.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72
1	102	98	94	90	96	92	89	86	82	80	77	73	71	69	64	63	62
2	93	86	79	74	88	81	76	71	72	68	64	64	61	58	57	54	52
3	85	76	68	62	80	72	65	60	64	59	55	57	53	50	51	47	45
4	78	67	59	53	73	64	56	51	57	51	47	51	46	43	45	42	39
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34
6	66	54	46	40	62	51	44	38	46	40	36	42	37	33	37	33	30
7	61	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24
9	53	41	33	28	50	39	32	27	36	30	25	32	27	24	29	25	22
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13313	13313	13313
5°	13314	12981	13001
10°	13184	12653	12542
15°	12997	12195	11938
20°	12766	11645	11304
25°	12501	11107	10624
30°	12177	10515	9911
35°	11847	9915	9153
40°	11532	9299	8413
45°	11153	8632	7638
50°	10769	7925	6848
55°	10325	7230	6030
60°	9869	6433	5182
65°	9326	5544	4268
70°	8693	4514	3359
75°	7816	3394	2447
80°	6592	2198	1650
85°	4934	1180	930

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11153 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.6	2.7
10°-20°	546.5	7.5
20°-30°	792.4	10.9
30°-40°	902.8	12.4
40°-50°	879.9	12.1
50°-60°	740.5	10.2
60°-70°	518.9	7.1
70°-80°	266.0	3.6
80°-90°	67.5	0.9
90°-100°	26.3	0.4
100°-110°	174.8	2.4
110°-120°	314.7	4.3
120°-130°	404.0	5.5
130°-140°	434.5	6.0
140°-150°	407.8	5.6
150°-160°	329.9	4.5
160°-170°	213.3	2.9
170°-180°	73.6	1.0
0°-30°	1534.4	21.1
0°-40°	2437.2	33.4
0°-60°	4057.7	55.7
0°-90°	4910.2	67.4
90°-120°	515.8	7.1
90°-150°	1762.1	24.2
90°-180°	2379.0	32.6
0°-180°	7289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2078	2078	2078	2078	2078	
5°	2075	2068	2051	2067	2064	197
15°	1973	1963	1930	1929	1914	556
25°	1789	1766	1707	1687	1670	823
35°	1541	1503	1433	1387	1365	965
45°	1262	1216	1130	1067	1044	973
55°	957	907	819	749	723	856
65°	648	595	512	449	425	642
75°	345	298	232	198	187	365
85°	86	58	50	49	47	95
90°	1	5	9	12	14	7
95°	33	31	9	12	12	40
105°	169	171	171	171	170	179
115°	317	320	320	318	315	314
125°	451	455	455	452	451	403
135°	562	566	564	563	560	433
145°	652	653	653	653	650	408
155°	718	714	715	717	712	331
165°	757	754	754	758	753	214
175°	774	771	772	776	771	74
180°	774	774	774	774	774	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2077.8	2077.8	2077.8	2077.8	2077.8
2.5°	2082.5	2077.8	2062.1	2077.8	2076.2
5°	2074.6	2068.3	2051.1	2066.8	2063.6
7.5°	2058.9	2052.6	2032.2	2044.8	2041.7
10°	2035.4	2030.7	2008.7	2013.4	2008.7
12.5°	2008.7	2002.4	1971.0	1974.2	1966.3
15°	1972.6	1963.2	1930.2	1928.7	1914.5
17.5°	1935.0	1920.8	1881.6	1873.7	1862.8
20°	1889.4	1873.7	1823.5	1815.7	1801.6
22.5°	1839.2	1823.5	1770.2	1752.9	1741.9
25°	1789.0	1765.5	1707.4	1687.0	1669.7
27.5°	1732.5	1704.3	1643.1	1616.4	1599.1
30°	1669.7	1639.9	1574.0	1537.9	1523.8
32.5°	1608.5	1572.4	1505.0	1464.2	1445.3
35°	1541.1	1503.4	1432.8	1387.3	1365.3
37.5°	1476.7	1431.2	1359.0	1305.7	1283.7
40°	1407.7	1360.6	1285.3	1225.6	1206.8
42.5°	1335.5	1286.8	1208.4	1151.9	1122.1
45°	1261.7	1216.2	1129.9	1067.1	1043.6
47.5°	1184.8	1137.7	1051.4	987.1	960.4
50°	1112.6	1060.8	971.4	905.5	881.9
52.5°	1034.2	980.8	897.6	825.5	801.9
55°	957.3	907.1	819.2	748.6	723.4
57.5°	878.8	825.5	740.7	671.7	649.7
60°	803.5	748.6	663.8	594.8	571.2
62.5°	723.4	671.7	585.3	522.6	499.0
65°	648.1	594.8	511.6	448.8	425.3
67.5°	572.8	519.4	439.4	379.8	360.9
70°	495.9	442.5	364.1	315.4	296.6
72.5°	420.6	368.8	296.6	252.7	241.7
75°	345.2	298.2	232.3	197.7	186.7
77.5°	268.4	230.7	175.8	149.1	139.7
80°	204.0	166.3	122.4	108.3	105.1
82.5°	141.2	108.3	81.6	76.9	75.3
85°	86.3	58.1	50.2	48.6	47.1
87.5°	36.1	25.1	23.5	23.5	22.0
90°	0.6	5.2	9.2	12.1	13.8
92.5°	10.9	5.7	9.2	12.1	12.6
95°	32.7	31.0	9.2	12.1	12.1
97.5°	61.4	64.9	10.3	11.5	12.1
100°	95.9	97.6	99.9	14.4	12.1
102.5°	130.9	133.2	134.3	135.5	87.3
105°	168.8	171.1	171.1	171.1	170.5
107.5°	207.8	207.8	209.0	209.5	207.2
110°	245.7	245.7	246.8	245.1	245.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	281.3	283.0	283.6	281.3	280.1
115°	316.9	319.8	320.3	318.0	314.6
117.5°	354.2	354.2	356.5	353.1	351.9
120°	388.6	388.1	389.8	388.6	385.8
122.5°	419.1	421.9	422.5	421.4	417.9
125°	450.6	454.7	454.7	452.4	450.6
127.5°	481.1	483.9	483.4	482.2	477.6
130°	508.6	511.5	512.1	510.3	507.5
132.5°	536.2	539.6	537.9	537.9	535.0
135°	562.0	565.5	564.3	563.2	559.7
137.5°	586.1	589.6	588.4	588.4	585.6
140°	609.7	610.8	610.2	611.4	607.9
142.5°	630.9	631.5	632.6	632.6	629.2
145°	651.6	652.7	652.7	653.3	649.8
147.5°	669.9	669.9	670.5	671.1	667.1
150°	687.2	686.0	687.2	688.3	683.7
152.5°	703.8	700.9	702.1	703.2	699.2
155°	717.6	714.1	715.3	717.0	712.4
157.5°	728.5	726.8	726.8	728.5	723.9
160°	740.0	736.5	737.1	739.4	734.8
162.5°	749.2	745.7	746.3	749.7	744.6
165°	757.2	753.8	754.3	757.8	753.2
167.5°	763.5	760.1	760.6	764.7	759.5
170°	768.7	764.7	765.2	769.8	764.7
172.5°	772.1	768.1	769.3	773.3	768.1
175°	774.4	771.0	771.5	776.1	771.0
177.5°	776.1	772.7	773.3	777.3	772.7
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)