

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: P1027170

Luminaire Tested: S125RDIP-B375D1270UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027170
REPORT IS A COMBINATION OF REPORTS P1005371 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B375D1270UB2750-4F0-XX-W2A-F_3000K
Description: Define 5 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

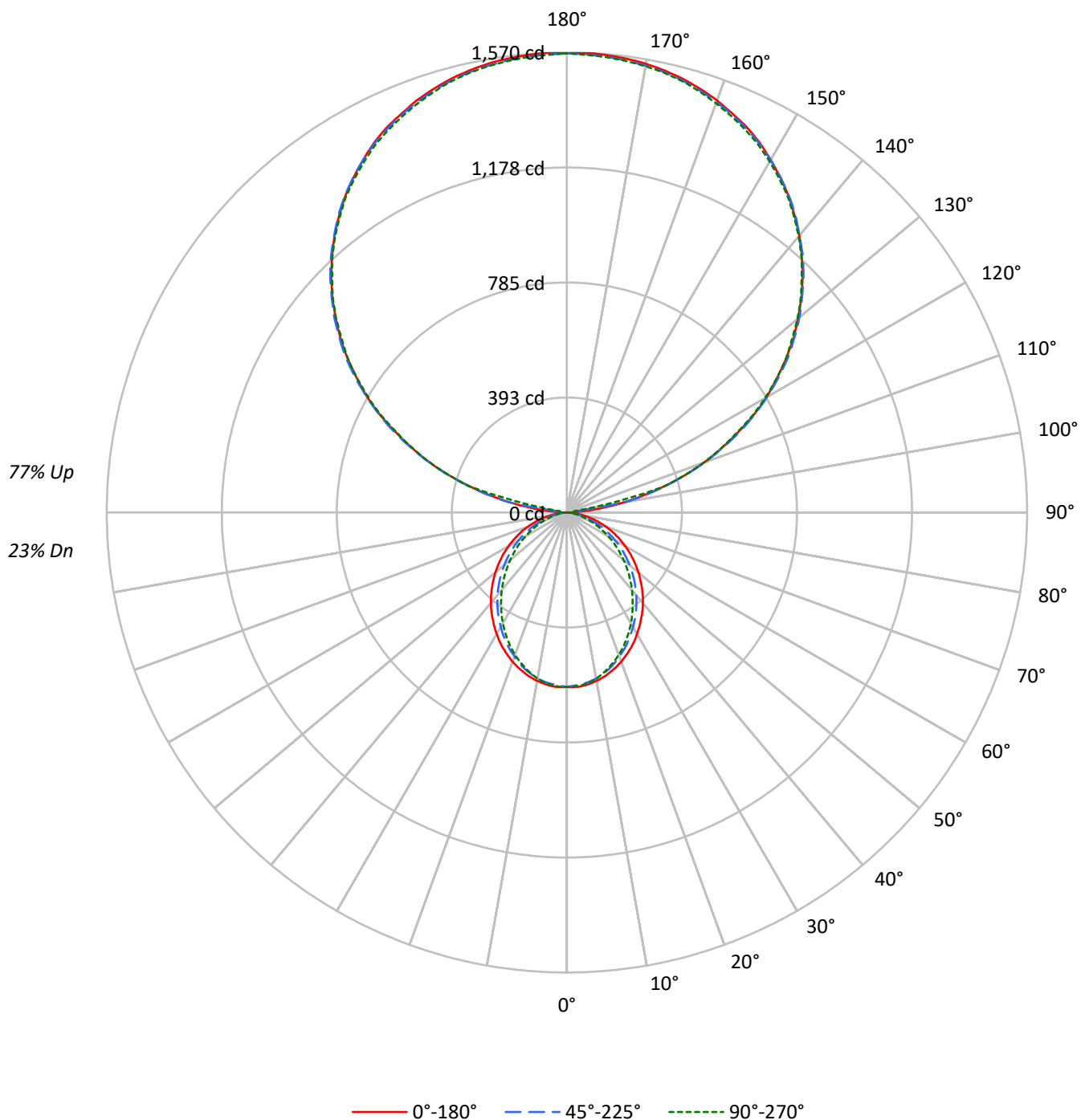
Lumens per Lamp: N/A
Luminaire Lumens: 6222.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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	50	30	10
RCR																				
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31			23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	27	27	26			19
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	24	23	22			16
3	76	67	60	55	67	60	54	49	46	42	39	33	31	29	22	20	19			14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16			12
5	64	53	45	39	56	47	41	36	37	32	28	27	24	21	17	16	14			10
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13			9
7	54	42	35	30	48	38	32	27	30	25	22	22	19	16	14	13	11			8
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	13	11	10			7
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	12	10	9			7
10	43	32	25	20	38	29	23	19	23	18	15	17	14	12	11	9	8			6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3815	3815	3815
5°	3816	3721	3727
10°	3779	3627	3595
15°	3725	3495	3421
20°	3659	3338	3240
25°	3583	3184	3045
30°	3490	3014	2840
35°	3395	2842	2623
40°	3305	2665	2411
45°	3197	2474	2189
50°	3087	2271	1963
55°	2959	2072	1729
60°	2829	1844	1485
65°	2673	1589	1223
70°	2491	1294	963
75°	2242	973	701
80°	1890	630	473
85°	1412	339	267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3197 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	0.9
10°-20°	156.6	2.5
20°-30°	227.1	3.7
30°-40°	258.7	4.2
40°-50°	252.2	4.1
50°-60°	212.2	3.4
60°-70°	148.7	2.4
70°-80°	76.3	1.2
80°-90°	21.3	0.3
90°-100°	53.2	0.9
100°-110°	353.6	5.7
110°-120°	636.8	10.2
120°-130°	817.3	13.1
130°-140°	879.0	14.1
140°-150°	825.0	13.3
150°-160°	667.3	10.7
160°-170°	431.6	6.9
170°-180°	148.8	2.4
0°-30°	439.8	7.1
0°-40°	698.5	11.2
0°-60°	1163.0	18.7
0°-90°	1409.3	22.7
90°-120°	1043.5	16.8
90°-150°	3564.9	57.3
90°-180°	4813.0	77.4
0°-180°	6222.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	596	596	596	596	596	
5°	595	593	588	592	592	56
15°	565	563	553	553	549	159
25°	513	506	489	484	479	236
35°	442	431	411	398	391	277
45°	362	349	324	306	299	279
55°	274	260	235	214	207	245
65°	186	170	147	129	122	184
75°	99	86	67	57	54	105
85°	25	17	14	14	14	27
90°	1	10	19	24	28	5
95°	66	63	19	24	24	81
105°	342	346	346	346	345	362
115°	641	647	648	643	636	636
125°	912	920	920	915	912	814
135°	1137	1144	1142	1139	1132	877
145°	1318	1320	1320	1322	1315	824
155°	1452	1445	1447	1451	1441	669
165°	1532	1525	1526	1533	1524	433
175°	1567	1560	1561	1570	1560	149
180°	1567	1567	1567	1567	1567	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	595.5	595.5	595.5	595.5	595.5
2.5°	596.9	595.5	591.0	595.5	595.1
5°	594.6	592.8	587.9	592.4	591.5
7.5°	590.1	588.3	582.5	586.1	585.2
10°	583.4	582.0	575.7	577.1	575.7
12.5°	575.7	573.9	564.9	565.8	563.6
15°	565.4	562.7	553.2	552.8	548.7
17.5°	554.6	550.5	539.3	537.0	533.9
20°	541.5	537.0	522.7	520.4	516.4
22.5°	527.2	522.7	507.4	502.4	499.3
25°	512.8	506.0	489.4	483.5	478.6
27.5°	496.6	488.5	470.9	463.3	458.3
30°	478.6	470.0	451.1	440.8	436.7
32.5°	461.0	450.7	431.3	419.7	414.3
35°	441.7	430.9	410.7	397.6	391.3
37.5°	423.3	410.2	389.5	374.2	367.9
40°	403.5	390.0	368.4	351.3	345.9
42.5°	382.8	368.8	346.3	330.1	321.6
45°	361.6	348.6	323.8	305.9	299.1
47.5°	339.6	326.1	301.4	282.9	275.3
50°	318.9	304.1	278.4	259.5	252.8
52.5°	296.4	281.1	257.3	236.6	229.8
55°	274.4	260.0	234.8	214.5	207.4
57.5°	251.9	236.6	212.3	192.5	186.2
60°	230.3	214.5	190.3	170.5	163.7
62.5°	207.4	192.5	167.8	149.8	143.0
65°	185.8	170.5	146.6	128.6	121.9
67.5°	164.2	148.9	125.9	108.8	103.5
70°	142.1	126.8	104.4	90.4	85.0
72.5°	120.5	105.7	85.0	72.4	69.3
75°	99.0	85.5	66.6	56.7	53.5
77.5°	76.9	66.1	50.4	42.7	40.0
80°	58.5	47.7	35.1	31.0	30.1
82.5°	40.5	31.0	23.4	22.0	21.6
85°	24.7	16.6	14.4	13.9	13.5
87.5°	10.3	7.2	6.7	6.7	6.3
90°	1.2	10.5	18.6	24.4	27.9
92.5°	22.1	11.6	18.6	24.4	25.6
95°	66.2	62.7	18.6	24.4	24.4
97.5°	124.3	131.2	20.9	23.2	24.4
100°	194.0	197.4	202.1	29.0	24.4
102.5°	264.8	269.4	271.8	274.1	176.5
105°	341.5	346.1	346.1	346.1	344.9
107.5°	420.4	420.4	422.8	423.9	419.3
110°	497.1	497.1	499.4	495.9	497.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	569.1	572.6	573.7	569.1	566.8
115°	641.1	646.9	648.1	643.4	636.4
117.5°	716.6	716.6	721.2	714.3	711.9
120°	786.3	785.1	788.6	786.3	780.5
122.5°	847.8	853.6	854.8	852.5	845.5
125°	911.7	919.8	919.8	915.2	911.7
127.5°	973.3	979.1	977.9	975.6	966.3
130°	1029.0	1034.8	1036.0	1032.5	1026.7
132.5°	1084.8	1091.7	1088.2	1088.2	1082.4
135°	1137.0	1144.0	1141.7	1139.3	1132.4
137.5°	1185.8	1192.8	1190.4	1190.4	1184.6
140°	1233.4	1235.7	1234.6	1236.9	1229.9
142.5°	1276.4	1277.5	1279.9	1279.9	1272.9
145°	1318.2	1320.5	1320.5	1321.7	1314.7
147.5°	1355.4	1355.4	1356.5	1357.7	1349.6
150°	1390.2	1387.9	1390.2	1392.5	1383.2
152.5°	1423.9	1418.1	1420.4	1422.7	1414.6
155°	1451.8	1444.8	1447.1	1450.6	1441.3
157.5°	1473.8	1470.3	1470.3	1473.8	1464.5
160°	1497.0	1490.1	1491.2	1495.9	1486.6
162.5°	1515.6	1508.7	1509.8	1516.8	1506.3
165°	1531.9	1524.9	1526.1	1533.1	1523.8
167.5°	1544.7	1537.7	1538.9	1547.0	1536.5
170°	1555.1	1547.0	1548.2	1557.4	1547.0
172.5°	1562.1	1554.0	1556.3	1564.4	1554.0
175°	1566.7	1559.8	1560.9	1570.2	1559.8
177.5°	1570.2	1563.2	1564.4	1572.5	1563.2
180°	1566.7	1566.7	1566.7	1566.7	1566.7

(END OF REPORT)