

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: P1027173

Luminaire Tested: S125RDIP-B375D1270UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027173
REPORT IS A COMBINATION OF REPORTS P1005374 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_5000K
Description: Define 5 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

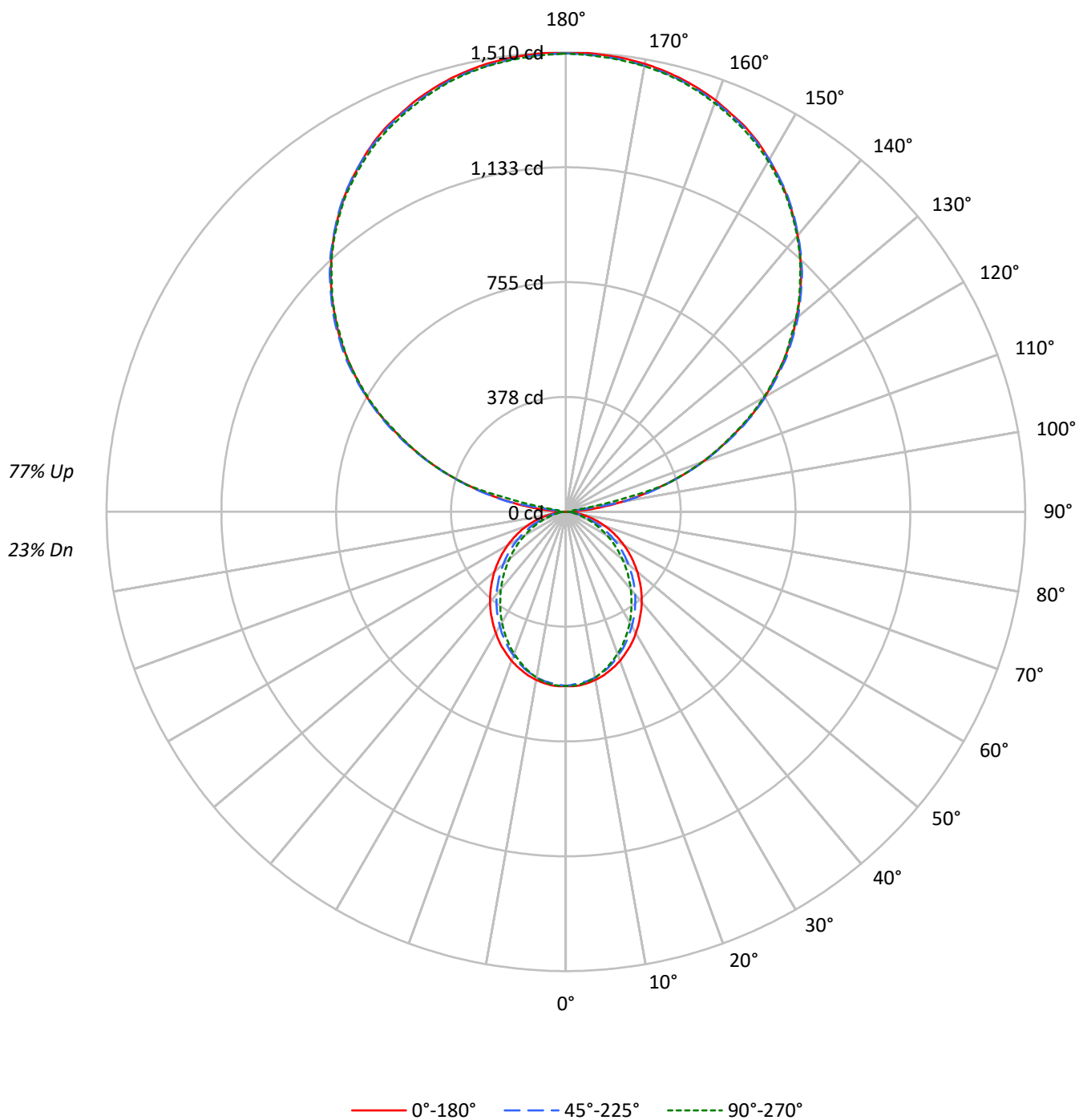
Lumens per Lamp: N/A
Luminaire Lumens: 5983.0 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1027173

CATALOG NUMBER: S125RDIP-B375D1270UB2750-4F0-XX-W2A-F_5000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3669	3669	3669
5°	3670	3578	3584
10°	3634	3487	3457
15°	3582	3361	3290
20°	3519	3210	3115
25°	3446	3061	2928
30°	3356	2898	2732
35°	3265	2733	2523
40°	3179	2562	2319
45°	3075	2379	2105
50°	2969	2184	1888
55°	2845	1993	1662
60°	2721	1774	1428
65°	2570	1528	1176
70°	2396	1243	925
75°	2156	935	675
80°	1816	605	455
85°	1361	324	257

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3075 cd/sqm

TEST NUMBER: P1027173

CATALOG NUMBER: S125RDIP-B375D1270UB2750-4F0-XX-W2A-F_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	0.9
10°-20°	150.6	2.5
20°-30°	218.4	3.7
30°-40°	248.8	4.2
40°-50°	242.5	4.1
50°-60°	204.1	3.4
60°-70°	143.0	2.4
70°-80°	73.3	1.2
80°-90°	20.5	0.3
90°-100°	51.2	0.9
100°-110°	340.0	5.7
110°-120°	612.3	10.2
120°-130°	785.9	13.1
130°-140°	845.3	14.1
140°-150°	793.3	13.3
150°-160°	641.7	10.7
160°-170°	415.0	6.9
170°-180°	143.1	2.4
0°-30°	422.9	7.1
0°-40°	671.7	11.2
0°-60°	1118.4	18.7
0°-90°	1355.2	22.7
90°-120°	1003.5	16.8
90°-150°	3428.0	57.3
90°-180°	4628.0	77.4
0°-180°	5983.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	573	573	573	573	573	
5°	572	570	565	570	569	54
15°	544	541	532	532	528	153
25°	493	487	471	465	460	227
35°	425	414	395	382	376	266
45°	348	335	311	294	288	268
55°	264	250	226	206	199	236
65°	179	164	141	124	117	177
75°	95	82	64	54	52	101
85°	24	16	14	13	13	26
90°	1	10	18	24	27	5
95°	64	60	18	24	24	78
105°	328	333	333	333	332	348
115°	616	622	623	619	612	611
125°	877	884	884	880	877	783
135°	1093	1100	1098	1096	1089	843
145°	1268	1270	1270	1271	1264	793
155°	1396	1389	1392	1395	1386	643
165°	1473	1466	1468	1474	1465	416
175°	1506	1500	1501	1510	1500	143
180°	1506	1506	1506	1506	1506	

TEST NUMBER: P1027173

CATALOG NUMBER: S125RDIP-B375D1270UB2750-4F0-XX-W2A-F_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	572.7	572.7	572.7	572.7	572.7
2.5°	574.0	572.7	568.3	572.7	572.2
5°	571.8	570.1	565.3	569.6	568.8
7.5°	567.5	565.7	560.1	563.6	562.7
10°	561.0	559.7	553.6	554.9	553.6
12.5°	553.6	551.9	543.3	544.1	542.0
15°	543.7	541.1	532.0	531.6	527.7
17.5°	533.3	529.4	518.6	516.4	513.4
20°	520.8	516.4	502.6	500.4	496.5
22.5°	506.9	502.6	487.9	483.1	480.1
25°	493.1	486.6	470.6	465.0	460.2
27.5°	477.5	469.7	452.9	445.5	440.7
30°	460.2	452.0	433.8	423.9	420.0
32.5°	443.3	433.4	414.8	403.5	398.4
35°	424.7	414.4	394.9	382.4	376.3
37.5°	407.0	394.5	374.6	359.9	353.8
40°	388.0	375.0	354.2	337.8	332.6
42.5°	368.1	354.7	333.0	317.5	309.3
45°	347.8	335.2	311.4	294.1	287.6
47.5°	326.6	313.6	289.8	272.1	264.7
50°	306.7	292.4	267.7	249.6	243.1
52.5°	285.0	270.3	247.4	227.5	221.0
55°	263.8	250.0	225.8	206.3	199.4
57.5°	242.2	227.5	204.2	185.1	179.1
60°	221.5	206.3	183.0	163.9	157.4
62.5°	199.4	185.1	161.3	144.0	137.5
65°	178.6	163.9	141.0	123.7	117.2
67.5°	157.9	143.2	121.1	104.7	99.5
70°	136.7	122.0	100.3	86.9	81.7
72.5°	115.9	101.6	81.7	69.6	66.6
75°	95.2	82.2	64.0	54.5	51.5
77.5°	74.0	63.6	48.4	41.1	38.5
80°	56.2	45.8	33.7	29.8	29.0
82.5°	38.9	29.8	22.5	21.2	20.8
85°	23.8	16.0	13.8	13.4	13.0
87.5°	9.9	6.9	6.5	6.5	6.1
90°	1.1	10.1	17.9	23.5	26.8
92.5°	21.2	11.2	17.9	23.5	24.6
95°	63.7	60.3	17.9	23.5	23.5
97.5°	119.5	126.2	20.1	22.3	23.5
100°	186.5	189.9	194.3	27.9	23.5
102.5°	254.6	259.1	261.3	263.6	169.8
105°	328.3	332.8	332.8	332.8	331.7
107.5°	404.3	404.3	406.5	407.6	403.2
110°	478.0	478.0	480.2	476.9	478.0

TEST NUMBER: P1027173

CATALOG NUMBER: S125RDIP-B375D1270UB2750-4F0-XX-W2A-F_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	547.2	550.6	551.7	547.2	545.0
115°	616.5	622.0	623.2	618.7	612.0
117.5°	689.1	689.1	693.5	686.8	684.6
120°	756.1	754.9	758.3	756.1	750.5
122.5°	815.3	820.8	822.0	819.7	813.0
125°	876.7	884.5	884.5	880.0	876.7
127.5°	935.9	941.4	940.3	938.1	929.2
130°	989.5	995.1	996.2	992.8	987.2
132.5°	1043.1	1049.8	1046.4	1046.4	1040.8
135°	1093.3	1100.0	1097.8	1095.6	1088.9
137.5°	1140.2	1146.9	1144.7	1144.7	1139.1
140°	1186.0	1188.3	1187.1	1189.4	1182.7
142.5°	1227.3	1228.5	1230.7	1230.7	1224.0
145°	1267.5	1269.8	1269.8	1270.9	1264.2
147.5°	1303.3	1303.3	1304.4	1305.5	1297.7
150°	1336.8	1334.6	1336.8	1339.0	1330.1
152.5°	1369.2	1363.6	1365.8	1368.1	1360.2
155°	1396.0	1389.3	1391.5	1394.9	1385.9
157.5°	1417.2	1413.8	1413.8	1417.2	1408.3
160°	1439.5	1432.8	1433.9	1438.4	1429.5
162.5°	1457.4	1450.7	1451.8	1458.5	1448.5
165°	1473.0	1466.3	1467.5	1474.2	1465.2
167.5°	1485.3	1478.6	1479.7	1487.6	1477.5
170°	1495.4	1487.6	1488.7	1497.6	1487.6
172.5°	1502.1	1494.3	1496.5	1504.3	1494.3
175°	1506.5	1499.8	1501.0	1509.9	1499.8
177.5°	1509.9	1503.2	1504.3	1512.1	1503.2
180°	1506.5	1506.5	1506.5	1506.5	1506.5

(END OF REPORT)