

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: P1027169

Luminaire Tested: S125RDIP-B375D1270UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027169
REPORT IS A COMBINATION OF REPORTS P1005370 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B375D1270UB2750-4F0-XX-W2A-F_2700K
Description: Define 5 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

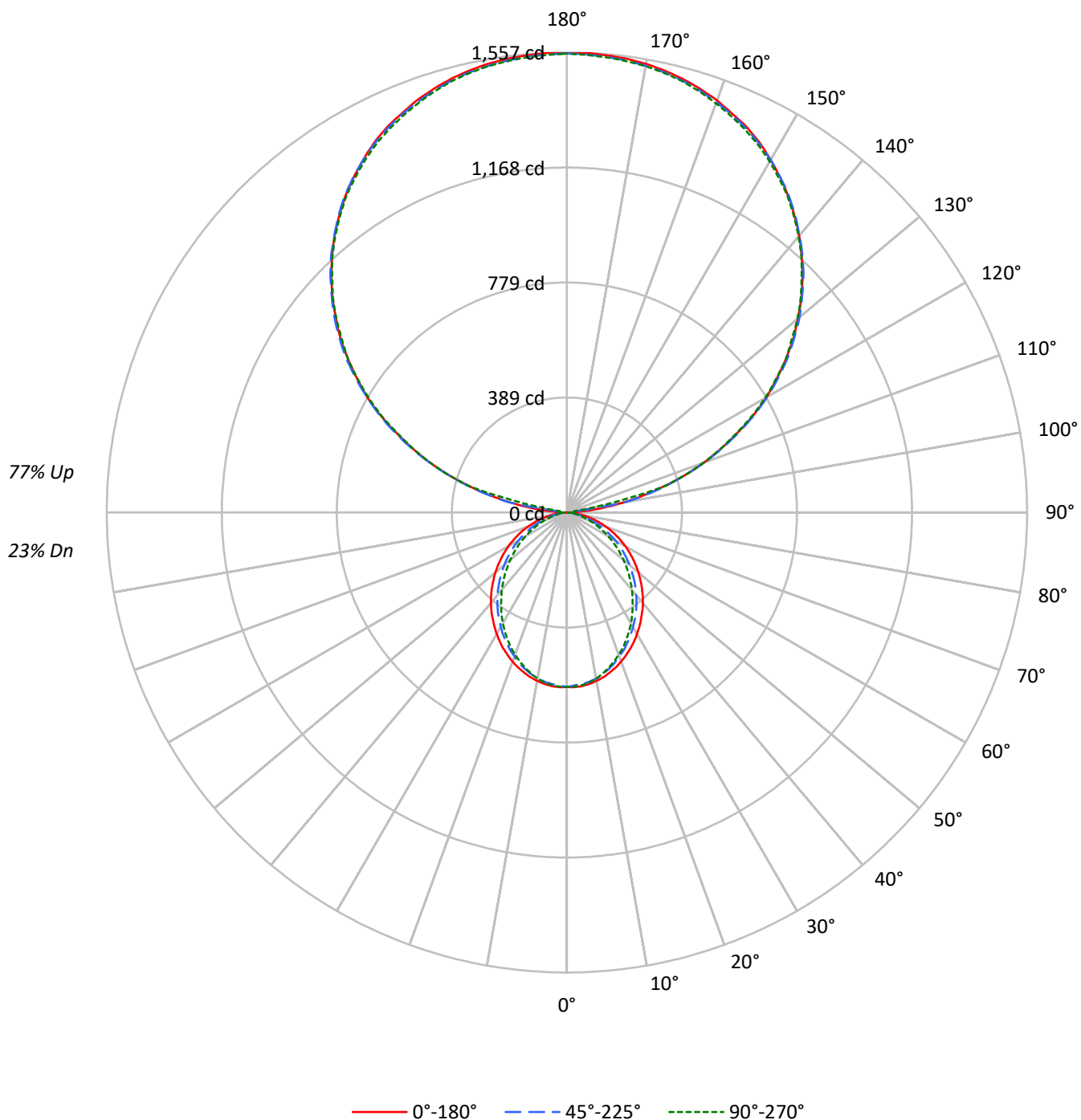
Lumens per Lamp: N/A
Luminaire Lumens: 6169.0 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
Input Voltage (V): 120
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: P1027169

CATALOG NUMBER: S125RDIP-B375D1270UB2750-4F0-XX-W2A-F_2700K

Luminous Intensity Polar Plot



TEST NUMBER: P1027169

CATALOG NUMBER: S125RDIP-B375D1270UB2750-4F0-XX-W2A-F_2700K

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°	3783	3783	3783
5°	3783	3689	3695
10°	3747	3596	3564
15°	3694	3466	3393
20°	3628	3309	3213
25°	3553	3156	3019
30°	3461	2988	2816
35°	3366	2818	2601
40°	3277	2642	2390
45°	3169	2453	2171
50°	3061	2252	1946
55°	2934	2055	1714
60°	2804	1828	1472
65°	2650	1576	1213
70°	2470	1283	955
75°	2221	964	696
80°	1874	625	469
85°	1401	336	265

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3169 cd/sqm

TEST NUMBER: P1027169

CATALOG NUMBER: S125RDIP-B375D1270UB2750-4F0-XX-W2A-F_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	0.9
10°-20°	155.3	2.5
20°-30°	225.2	3.7
30°-40°	256.5	4.2
40°-50°	250.0	4.1
50°-60°	210.4	3.4
60°-70°	147.5	2.4
70°-80°	75.6	1.2
80°-90°	21.2	0.3
90°-100°	52.7	0.9
100°-110°	350.6	5.7
110°-120°	631.3	10.2
120°-130°	810.4	13.1
130°-140°	871.6	14.1
140°-150°	818.0	13.3
150°-160°	661.7	10.7
160°-170°	427.9	6.9
170°-180°	147.6	2.4
0°-30°	436.0	7.1
0°-40°	692.6	11.2
0°-60°	1153.1	18.7
0°-90°	1397.3	22.7
90°-120°	1034.6	16.8
90°-150°	3534.5	57.3
90°-180°	4772.0	77.4
0°-180°	6169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	590	588	583	587	586	56
15°	561	558	548	548	544	158
25°	508	502	485	479	474	234
35°	438	427	407	394	388	274
45°	358	346	321	303	297	277
55°	272	258	233	213	206	243
65°	184	169	145	128	121	182
75°	98	85	66	56	53	104
85°	24	16	14	14	13	27
90°	1	10	18	24	28	5
95°	66	62	18	24	24	80
105°	338	343	343	343	342	359
115°	636	641	642	638	631	630
125°	904	912	912	907	904	807
135°	1127	1134	1132	1130	1123	869
145°	1307	1309	1309	1310	1304	817
155°	1439	1432	1435	1438	1429	663
165°	1519	1512	1513	1520	1511	429
175°	1553	1546	1548	1557	1546	148
180°	1553	1553	1553	1553	1553	

TEST NUMBER: P1027169

CATALOG NUMBER: S125RDIP-B375D1270UB2750-4F0-XX-W2A-F_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	590.4	590.4	590.4	590.4	590.4
2.5°	591.8	590.4	586.0	590.4	590.0
5°	589.5	587.8	582.9	587.3	586.4
7.5°	585.1	583.3	577.5	581.1	580.2
10°	578.4	577.1	570.8	572.2	570.8
12.5°	570.8	569.0	560.1	561.0	558.8
15°	560.6	557.9	548.5	548.1	544.1
17.5°	549.9	545.8	534.7	532.5	529.3
20°	536.9	532.5	518.2	516.0	512.0
22.5°	522.7	518.2	503.0	498.1	495.0
25°	508.4	501.7	485.2	479.4	474.5
27.5°	492.3	484.3	466.9	459.3	454.4
30°	474.5	466.0	447.3	437.0	433.0
32.5°	457.1	446.8	427.7	416.1	410.7
35°	437.9	427.2	407.2	394.2	388.0
37.5°	419.6	406.7	386.2	371.0	364.8
40°	400.0	386.6	365.2	348.3	342.9
42.5°	379.5	365.7	343.4	327.3	318.9
45°	358.5	345.6	321.1	303.2	296.6
47.5°	336.7	323.3	298.8	280.5	272.9
50°	316.2	301.5	276.0	257.3	250.6
52.5°	293.9	278.7	255.1	234.6	227.9
55°	272.0	257.8	232.8	212.7	205.6
57.5°	249.7	234.6	210.5	190.9	184.6
60°	228.3	212.7	188.6	169.0	162.3
62.5°	205.6	190.9	166.3	148.5	141.8
65°	184.2	169.0	145.4	127.5	120.9
67.5°	162.8	147.6	124.9	107.9	102.6
70°	140.9	125.8	103.5	89.6	84.3
72.5°	119.5	104.8	84.3	71.8	68.7
75°	98.1	84.7	66.0	56.2	53.1
77.5°	76.3	65.6	49.9	42.4	39.7
80°	58.0	47.3	34.8	30.8	29.9
82.5°	40.1	30.8	23.2	21.9	21.4
85°	24.5	16.5	14.3	13.8	13.4
87.5°	10.3	7.1	6.7	6.7	6.2
90°	1.2	10.4	18.4	24.2	27.6
92.5°	21.9	11.5	18.4	24.2	25.3
95°	65.6	62.2	18.4	24.2	24.2
97.5°	123.2	130.1	20.7	23.0	24.2
100°	192.3	195.8	200.4	28.8	24.2
102.5°	262.5	267.2	269.5	271.8	175.0
105°	338.5	343.2	343.2	343.2	342.0
107.5°	416.8	416.8	419.2	420.3	415.7
110°	492.8	492.8	495.2	491.7	492.8



TEST NUMBER: P1027169

CATALOG NUMBER: S125RDIP-B375D1270UB2750-4F0-XX-W2A-F_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	564.2	567.7	568.8	564.2	561.9
115°	635.6	641.4	642.5	637.9	631.0
117.5°	710.5	710.5	715.1	708.2	705.9
120°	779.6	778.4	781.9	779.6	773.8
122.5°	840.6	846.4	847.5	845.2	838.3
125°	903.9	912.0	912.0	907.4	903.9
127.5°	965.0	970.7	969.6	967.3	958.1
130°	1020.2	1026.0	1027.2	1023.7	1017.9
132.5°	1075.5	1082.4	1079.0	1079.0	1073.2
135°	1127.3	1134.2	1131.9	1129.6	1122.7
137.5°	1175.7	1182.6	1180.3	1180.3	1174.5
140°	1222.9	1225.2	1224.1	1226.4	1219.5
142.5°	1265.5	1266.7	1269.0	1269.0	1262.1
145°	1307.0	1309.3	1309.3	1310.4	1303.5
147.5°	1343.8	1343.8	1345.0	1346.1	1338.1
150°	1378.4	1376.1	1378.4	1380.7	1371.5
152.5°	1411.8	1406.0	1408.3	1410.6	1402.5
155°	1439.4	1432.5	1434.8	1438.2	1429.0
157.5°	1461.3	1457.8	1457.8	1461.3	1452.1
160°	1484.3	1477.4	1478.5	1483.2	1473.9
162.5°	1502.7	1495.8	1497.0	1503.9	1493.5
165°	1518.8	1511.9	1513.1	1520.0	1510.8
167.5°	1531.5	1524.6	1525.8	1533.8	1523.5
170°	1541.9	1533.8	1535.0	1544.2	1533.8
172.5°	1548.8	1540.7	1543.0	1551.1	1540.7
175°	1553.4	1546.5	1547.6	1556.8	1546.5
177.5°	1556.8	1549.9	1551.1	1559.2	1549.9
180°	1553.4	1553.4	1553.4	1553.4	1553.4

(END OF REPORT)