

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: P1028613

Luminaire Tested: S125RDIP-B1270D1270UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028613
REPORT IS A COMBINATION OF REPORTS P1005190 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1270D1270UB40-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

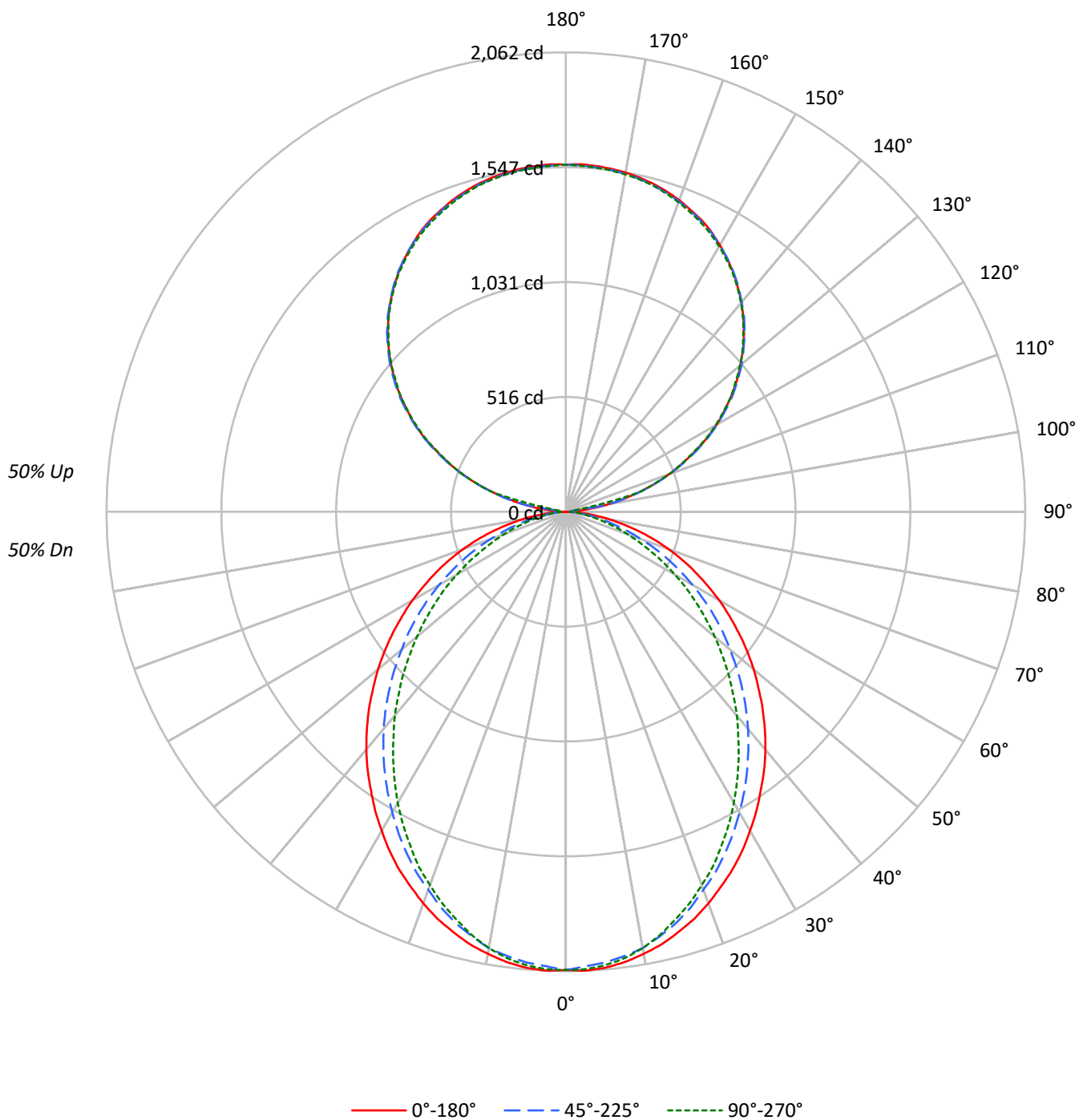
Lumens per Lamp: N/A
Luminaire Lumens: 9648.1 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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: P1028613

CATALOG NUMBER: S125RDIP-B1270D1270UB40-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1028613

CATALOG NUMBER: S125RDIP-B1270D1270UB40-4F0-XX-W2A-F

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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56
1	98	94	90	87	90	87	84	81	74	71	69	61	60	58	50	49	48
2	90	82	76	71	82	76	71	66	65	61	58	54	51	49	45	43	41
3	82	72	65	59	75	67	61	56	57	53	49	48	45	42	40	37	35
4	75	64	56	50	69	60	53	47	51	46	42	43	39	36	36	33	30
5	69	57	49	43	63	53	46	41	46	40	36	39	34	31	32	29	27
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	23
7	59	47	39	33	54	43	36	31	37	32	28	32	28	24	27	23	21
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	25	21	19
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	19	17
10	47	35	28	24	44	33	27	22	29	24	20	25	21	18	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13179	13179	13179
5°	13181	12851	12872
10°	13053	12527	12417
15°	12868	12074	11818
20°	12639	11528	11191
25°	12376	10996	10519
30°	12056	10411	9812
35°	11728	9816	9062
40°	11416	9205	8328
45°	11042	8546	7561
50°	10662	7846	6779
55°	10221	7158	5970
60°	9771	6369	5131
65°	9233	5489	4225
70°	8605	4468	3325
75°	7739	3359	2424
80°	6528	2176	1634
85°	4888	1169	921

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11042 cd/sqm

TEST NUMBER: P1028613

CATALOG NUMBER: S125RDIP-B1270D1270UB40-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	2.0
10°-20°	541.0	5.6
20°-30°	784.5	8.1
30°-40°	893.8	9.3
40°-50°	871.1	9.0
50°-60°	733.1	7.6
60°-70°	513.8	5.3
70°-80°	263.4	2.7
80°-90°	68.0	0.7
90°-100°	52.9	0.5
100°-110°	351.6	3.6
110°-120°	633.2	6.6
120°-130°	812.7	8.4
130°-140°	874.1	9.1
140°-150°	820.4	8.5
150°-160°	663.6	6.9
160°-170°	429.2	4.4
170°-180°	148.0	1.5
0°-30°	1519.1	15.7
0°-40°	2412.9	25.0
0°-60°	4017.2	41.6
0°-90°	4862.3	50.4
90°-120°	1037.7	10.8
90°-150°	3544.9	36.7
90°-180°	4786.0	49.6
0°-180°	9648.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2057	2057	2057	2057	2057	
5°	2054	2048	2031	2046	2043	195
15°	1953	1944	1911	1909	1895	551
25°	1771	1748	1690	1670	1653	815
35°	1526	1488	1418	1373	1352	955
45°	1249	1204	1119	1056	1033	963
55°	948	898	811	741	716	847
65°	642	589	506	444	421	635
75°	342	295	230	196	185	361
85°	86	58	50	48	47	94
90°	1	10	18	24	28	8
95°	66	62	18	24	24	81
105°	340	344	344	344	343	360
115°	638	643	644	640	633	632
125°	907	915	915	910	907	810
135°	1131	1138	1135	1133	1126	872
145°	1311	1313	1313	1314	1307	820
155°	1444	1437	1439	1442	1433	665
165°	1523	1516	1518	1524	1515	430
175°	1558	1551	1552	1561	1551	148
180°	1558	1558	1558	1558	1558	

TEST NUMBER: P1028613

CATALOG NUMBER: S125RDIP-B1270D1270UB40-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2057.0	2057.0	2057.0	2057.0	2057.0
2.5°	2061.7	2057.0	2041.5	2057.0	2055.5
5°	2053.9	2047.7	2030.6	2046.1	2043.0
7.5°	2038.4	2032.2	2012.0	2024.4	2021.3
10°	2015.1	2010.4	1988.7	1993.3	1988.7
12.5°	1988.7	1982.4	1951.4	1954.5	1946.7
15°	1952.9	1943.6	1911.0	1909.4	1895.4
17.5°	1915.6	1901.7	1862.8	1855.0	1844.2
20°	1870.6	1855.0	1805.3	1797.6	1783.6
22.5°	1820.9	1805.3	1752.5	1735.4	1724.5
25°	1771.1	1747.8	1690.4	1670.2	1653.1
27.5°	1715.2	1687.3	1626.7	1600.2	1583.2
30°	1653.1	1623.6	1558.3	1522.6	1508.6
32.5°	1592.5	1556.7	1489.9	1449.5	1430.9
35°	1525.7	1488.4	1418.5	1373.4	1351.7
37.5°	1462.0	1416.9	1345.5	1292.6	1270.9
40°	1393.6	1347.0	1272.4	1213.4	1194.7
42.5°	1322.1	1274.0	1196.3	1140.4	1110.9
45°	1249.1	1204.1	1118.6	1056.5	1033.2
47.5°	1173.0	1126.4	1040.9	977.2	950.8
50°	1101.5	1050.3	961.7	896.4	873.1
52.5°	1023.8	971.0	888.7	817.2	793.9
55°	947.7	898.0	811.0	741.1	716.2
57.5°	870.0	817.2	733.3	665.0	643.2
60°	795.5	741.1	657.2	588.8	565.5
62.5°	716.2	665.0	579.5	517.4	494.1
65°	641.7	588.8	506.5	444.3	421.0
67.5°	567.1	514.3	435.0	376.0	357.3
70°	490.9	438.1	360.4	312.3	293.6
72.5°	416.4	365.1	293.6	250.1	239.3
75°	341.8	295.2	229.9	195.8	184.9
77.5°	265.7	228.4	174.0	147.6	138.3
80°	202.0	164.7	121.2	107.2	104.1
82.5°	139.8	107.2	80.8	76.1	74.6
85°	85.5	57.5	49.7	48.2	46.6
87.5°	35.7	24.9	23.3	23.3	21.8
90°	1.2	10.4	18.5	24.3	27.7
92.5°	21.9	11.5	18.5	24.3	25.4
95°	65.8	62.4	18.5	24.3	24.3
97.5°	123.6	130.5	20.8	23.1	24.3
100°	192.9	196.3	201.0	28.9	24.3
102.5°	263.3	267.9	270.2	272.6	175.5
105°	339.5	344.2	344.2	344.2	343.0
107.5°	418.1	418.1	420.4	421.5	416.9
110°	494.3	494.3	496.6	493.1	494.3



TEST NUMBER: P1028613

CATALOG NUMBER: S125RDIP-B1270D1270UB40-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	565.9	569.4	570.5	565.9	563.6
115°	637.5	643.3	644.4	639.8	632.9
117.5°	712.6	712.6	717.2	710.3	707.9
120°	781.9	780.7	784.2	781.9	776.1
122.5°	843.1	848.8	850.0	847.7	840.8
125°	906.6	914.7	914.7	910.1	906.6
127.5°	967.8	973.6	972.4	970.1	960.9
130°	1023.2	1029.0	1030.2	1026.7	1020.9
132.5°	1078.7	1085.6	1082.1	1082.1	1076.4
135°	1130.6	1137.6	1135.3	1132.9	1126.0
137.5°	1179.1	1186.1	1183.8	1183.8	1178.0
140°	1226.5	1228.8	1227.6	1230.0	1223.0
142.5°	1269.2	1270.4	1272.7	1272.7	1265.8
145°	1310.8	1313.1	1313.1	1314.3	1307.3
147.5°	1347.8	1347.8	1348.9	1350.1	1342.0
150°	1382.4	1380.1	1382.4	1384.7	1375.5
152.5°	1415.9	1410.1	1412.4	1414.7	1406.7
155°	1443.6	1436.7	1439.0	1442.5	1433.2
157.5°	1465.6	1462.1	1462.1	1465.6	1456.3
160°	1488.7	1481.7	1482.9	1487.5	1478.3
162.5°	1507.1	1500.2	1501.4	1508.3	1497.9
165°	1523.3	1516.4	1517.5	1524.5	1515.2
167.5°	1536.0	1529.1	1530.2	1538.3	1527.9
170°	1546.4	1538.3	1539.5	1548.7	1538.3
172.5°	1553.3	1545.2	1547.6	1555.6	1545.2
175°	1557.9	1551.0	1552.2	1561.4	1551.0
177.5°	1561.4	1554.5	1555.6	1563.7	1554.5
180°	1557.9	1557.9	1557.9	1557.9	1557.9

(END OF REPORT)