

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: P1028583

Luminaire Tested: S125RDIP-B1270D1090UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028583
REPORT IS A COMBINATION OF REPORTS P1005150 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1270D1090UB40-4F0-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

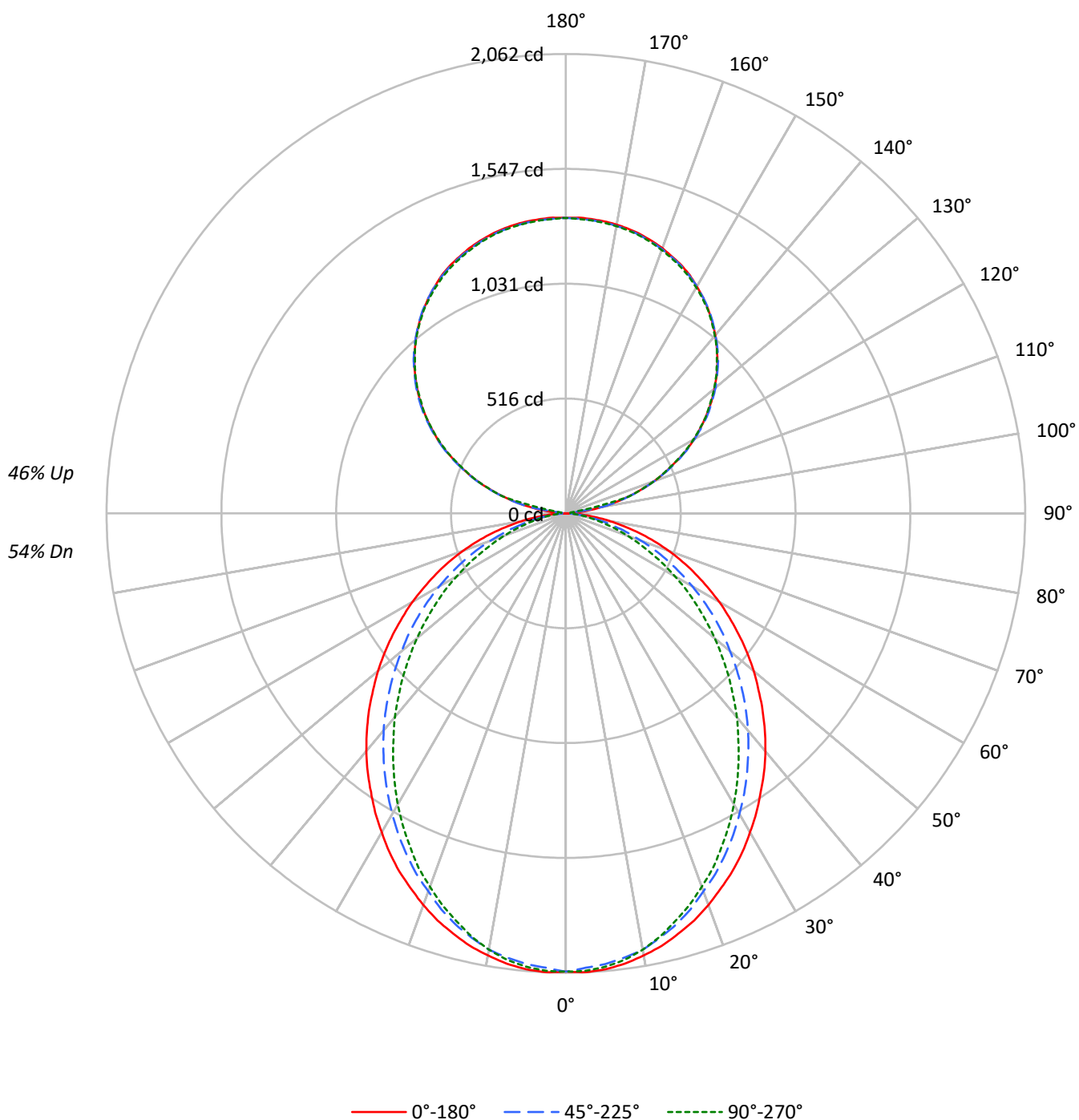
Lumens per Lamp: N/A
Luminaire Lumens: 8935.0 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60
1	99	95	91	88	92	88	85	82	76	73	71	64	62	61	54	52	51
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	47	45	44
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32
5	70	58	50	44	64	54	47	42	47	41	37	40	36	33	34	31	28
6	64	52	44	38	59	49	42	36	42	37	32	37	32	29	31	28	25
7	59	47	39	34	55	44	37	32	39	33	29	33	29	25	28	25	22
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	26	23	20
9	51	39	32	27	48	37	30	25	32	27	23	28	24	21	24	21	18
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	22	19	17

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	2.2
10°-20°	541.0	6.1
20°-30°	784.5	8.8
30°-40°	893.8	10.0
40°-50°	871.1	9.7
50°-60°	733.1	8.2
60°-70°	513.8	5.7
70°-80°	263.4	2.9
80°-90°	67.7	0.8
90°-100°	45.0	0.5
100°-110°	299.2	3.3
110°-120°	538.9	6.0
120°-130°	691.7	7.7
130°-140°	744.0	8.3
140°-150°	698.2	7.8
150°-160°	564.8	6.3
160°-170°	365.3	4.1
170°-180°	126.0	1.4
0°-30°	1519.1	17.0
0°-40°	2412.9	27.0
0°-60°	4017.2	45.0
0°-90°	4862.0	54.4
90°-120°	883.1	9.9
90°-150°	3017.0	33.8
90°-180°	4073.0	45.6
0°-180°	8935.0	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	9	16	21	24	8
95°	56	53	16	21	21	69
105°	289	293	293	293	292	306
115°	543	548	548	544	539	538
125°	772	778	778	774	772	689
135°	962	968	966	964	958	742
145°	1116	1118	1118	1119	1113	698
155°	1229	1223	1225	1228	1220	566
165°	1296	1291	1292	1297	1290	366
175°	1326	1320	1321	1329	1320	126
180°	1326	1326	1326	1326	1326	

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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°	1.0	8.8	15.7	20.6	23.6
92.5°	18.7	9.8	15.7	20.6	21.6
95°	56.0	53.1	15.7	20.6	20.6
97.5°	105.2	111.1	17.7	19.7	20.6
100°	164.1	167.1	171.0	24.6	20.6
102.5°	224.1	228.0	230.0	232.0	149.4
105°	289.0	292.9	292.9	292.9	291.9
107.5°	355.8	355.8	357.8	358.8	354.8
110°	420.7	420.7	422.7	419.7	420.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	481.6	484.6	485.6	481.6	479.7
115°	542.6	547.5	548.5	544.5	538.6
117.5°	606.5	606.5	610.4	604.5	602.5
120°	665.4	664.4	667.4	665.4	660.5
122.5°	717.5	722.4	723.4	721.5	715.6
125°	771.6	778.5	778.5	774.5	771.6
127.5°	823.7	828.6	827.6	825.6	817.8
130°	870.9	875.8	876.8	873.8	868.9
132.5°	918.0	923.9	921.0	921.0	916.1
135°	962.3	968.2	966.2	964.2	958.3
137.5°	1003.6	1009.5	1007.5	1007.5	1002.6
140°	1043.9	1045.8	1044.8	1046.8	1040.9
142.5°	1080.2	1081.2	1083.2	1083.2	1077.3
145°	1115.6	1117.6	1117.6	1118.6	1112.7
147.5°	1147.1	1147.1	1148.0	1149.0	1142.1
150°	1176.5	1174.6	1176.5	1178.5	1170.6
152.5°	1205.1	1200.1	1202.1	1204.1	1197.2
155°	1228.6	1222.7	1224.7	1227.7	1219.8
157.5°	1247.3	1244.4	1244.4	1247.3	1239.5
160°	1267.0	1261.1	1262.1	1266.0	1258.1
162.5°	1282.7	1276.8	1277.8	1283.7	1274.8
165°	1296.5	1290.6	1291.5	1297.4	1289.6
167.5°	1307.3	1301.4	1302.4	1309.2	1300.4
170°	1316.1	1309.2	1310.2	1318.1	1309.2
172.5°	1322.0	1315.1	1317.1	1324.0	1315.1
175°	1325.9	1320.1	1321.0	1328.9	1320.1
177.5°	1328.9	1323.0	1324.0	1330.9	1323.0
180°	1325.9	1325.9	1325.9	1325.9	1325.9

(END OF REPORT)