

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: P1028435

Luminaire Tested: S125RDIP-B1090D1090UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028435
REPORT IS A COMBINATION OF REPORTS P1004950 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D1090UB40-4F0-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

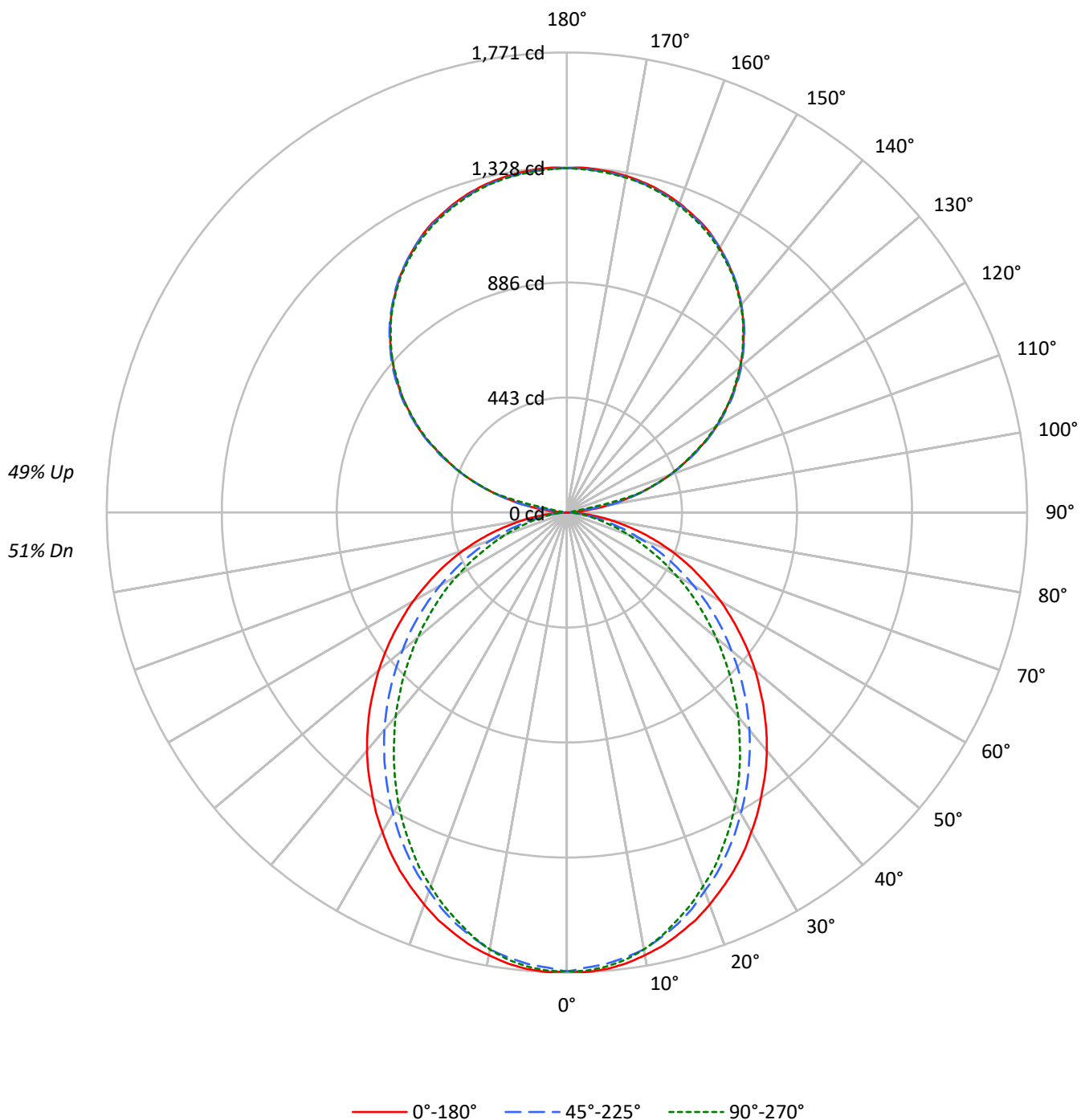
Lumens per Lamp: N/A
Luminaire Lumens: 8249.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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

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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	98	94	90	87	91	87	84	81	74	71	69	62	60	58	50	49	48
2	90	82	76	71	82	76	71	67	65	61	58	54	52	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	48	51	46	42	43	39	36	36	33	30
5	69	57	49	43	63	53	46	41	46	40	36	39	35	31	32	29	27
6	63	52	43	38	58	48	41	36	41	36	32	35	31	27	29	26	24
7	59	47	39	33	54	43	36	31	38	32	28	32	28	24	27	23	21
8	55	42	35	29	50	40	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	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11319	11319	11319
5°	11321	11037	11055
10°	11210	10759	10664
15°	11052	10369	10150
20°	10855	9901	9611
25°	10629	9444	9034
30°	10354	8941	8427
35°	10072	8431	7783
40°	9805	7906	7153
45°	9484	7339	6494
50°	9157	6739	5823
55°	8778	6147	5127
60°	8391	5470	4407
65°	7930	4714	3629
70°	7392	3838	2856
75°	6648	2886	2082
80°	5607	1869	1403
85°	4197	1004	790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9484 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	2.0
10°-20°	464.7	5.6
20°-30°	673.8	8.2
30°-40°	767.6	9.3
40°-50°	748.2	9.1
50°-60°	629.6	7.6
60°-70°	441.2	5.3
70°-80°	226.2	2.7
80°-90°	58.4	0.7
90°-100°	45.0	0.5
100°-110°	299.2	3.6
110°-120°	538.9	6.5
120°-130°	691.7	8.4
130°-140°	744.0	9.0
140°-150°	698.2	8.5
150°-160°	564.8	6.8
160°-170°	365.3	4.4
170°-180°	126.0	1.5
0°-30°	1304.7	15.8
0°-40°	2072.3	25.1
0°-60°	3450.1	41.8
0°-90°	4176.0	50.6
90°-120°	883.1	10.7
90°-150°	3017.0	36.6
90°-180°	4073.0	49.4
0°-180°	8249.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1767	1767	1767	1767	1767	
5°	1764	1759	1744	1757	1755	167
15°	1677	1669	1641	1640	1628	473
25°	1521	1501	1452	1434	1420	700
35°	1310	1278	1218	1180	1161	821
45°	1073	1034	961	907	887	827
55°	814	771	696	636	615	728
65°	551	506	435	382	362	546
75°	294	254	198	168	159	310
85°	73	49	43	41	40	80
90°	1	9	16	21	24	7
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°	1766.7	1766.7	1766.7	1766.7	1766.7
2.5°	1770.7	1766.7	1753.3	1766.7	1765.3
5°	1764.0	1758.7	1744.0	1757.3	1754.7
7.5°	1750.7	1745.3	1728.0	1738.6	1736.0
10°	1730.6	1726.6	1708.0	1712.0	1708.0
12.5°	1708.0	1702.6	1675.9	1678.6	1671.9
15°	1677.3	1669.3	1641.2	1639.9	1627.9
17.5°	1645.2	1633.2	1599.9	1593.2	1583.9
20°	1606.5	1593.2	1550.5	1543.8	1531.8
22.5°	1563.8	1550.5	1505.1	1490.5	1481.1
25°	1521.1	1501.1	1451.8	1434.4	1419.7
27.5°	1473.1	1449.1	1397.1	1374.4	1359.7
30°	1419.7	1394.4	1338.3	1307.7	1295.6
32.5°	1367.7	1337.0	1279.6	1244.9	1228.9
35°	1310.3	1278.3	1218.3	1179.6	1160.9
37.5°	1255.6	1216.9	1155.5	1110.2	1091.5
40°	1196.9	1156.9	1092.8	1042.1	1026.1
42.5°	1135.5	1094.2	1027.4	979.4	954.1
45°	1072.8	1034.1	960.7	907.4	887.3
47.5°	1007.4	967.4	894.0	839.3	816.6
50°	946.0	902.0	826.0	769.9	749.9
52.5°	879.3	834.0	763.2	701.9	681.8
55°	813.9	771.2	696.5	636.5	615.1
57.5°	747.2	701.9	629.8	571.1	552.4
60°	683.2	636.5	564.4	505.7	485.7
62.5°	615.1	571.1	497.7	444.3	424.3
65°	551.1	505.7	435.0	381.6	361.6
67.5°	487.0	441.7	373.6	322.9	306.9
70°	421.7	376.3	309.6	268.2	252.2
72.5°	357.6	313.6	252.2	214.8	205.5
75°	293.6	253.5	197.5	168.1	158.8
77.5°	228.2	196.1	149.4	126.8	118.8
80°	173.5	141.4	104.1	92.1	89.4
82.5°	120.1	92.1	69.4	65.4	64.0
85°	73.4	49.4	42.7	41.4	40.0
87.5°	30.7	21.3	20.0	20.0	18.7
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)