

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: P1027060

Luminaire Tested: S125RDIP-B1090D1090UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027060
REPORT IS A COMBINATION OF REPORTS P1004931 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D1090UB2750-4F0-XX-W2A-F_3000K
Description: Define 5 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

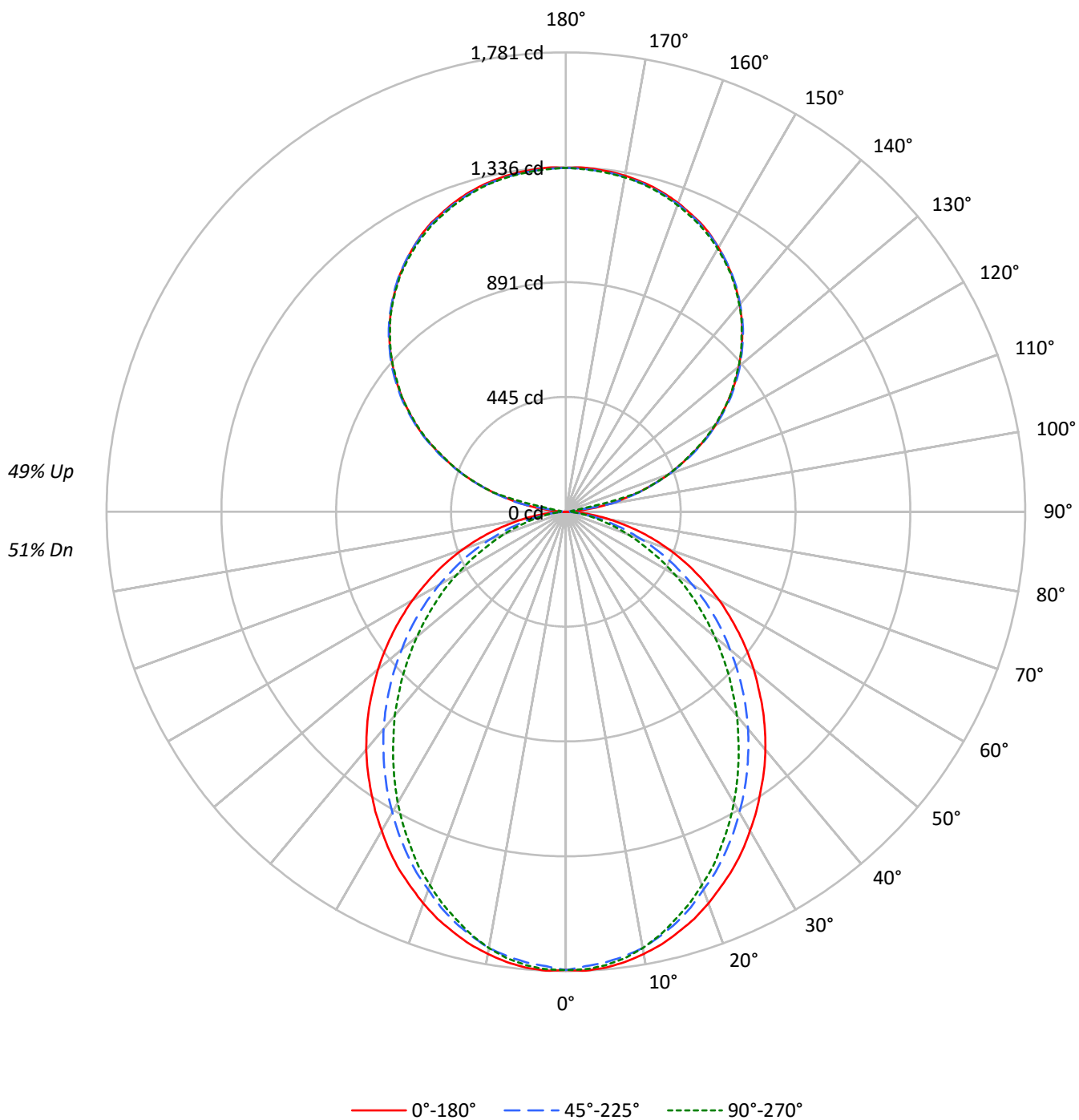
Lumens per Lamp: N/A
Luminaire Lumens: 8296.0 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	57	57	57
1	98	94	90	87	91	87	84	81	74	71	69	62	60	58	50	49	48	48	48	43
2	90	82	76	71	82	76	71	67	65	61	58	54	52	49	45	43	41	41	41	36
3	82	72	65	59	75	67	61	56	57	53	49	48	45	42	40	37	35	35	35	31
4	75	64	56	50	69	60	53	48	51	46	42	43	39	36	36	33	30	30	30	27
5	69	57	49	43	63	53	46	41	46	40	36	39	35	31	32	29	27	27	27	23
6	63	52	43	38	58	48	41	36	41	36	32	35	31	27	29	26	24	24	24	21
7	59	47	39	33	54	43	36	31	38	32	28	32	28	24	27	23	21	21	21	18
8	55	42	35	29	50	40	33	28	34	29	25	29	25	22	25	21	19	19	19	17
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	19	17	17	17	15
10	47	35	28	24	44	33	27	22	29	24	20	25	21	18	21	18	16	16	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11384	11384	11384
5°	11385	11100	11118
10°	11275	10821	10726
15°	11115	10429	10209
20°	10918	9958	9667
25°	10691	9498	9086
30°	10414	8992	8476
35°	10131	8479	7827
40°	9862	7951	7194
45°	9538	7382	6531
50°	9210	6778	5856
55°	8829	6182	5157
60°	8439	5502	4432
65°	7976	4741	3650
70°	7434	3859	2872
75°	6684	2902	2093
80°	5639	1880	1411
85°	4220	1009	796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9538 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	2.0
10°-20°	467.3	5.6
20°-30°	677.6	8.2
30°-40°	772.0	9.3
40°-50°	752.5	9.1
50°-60°	633.3	7.6
60°-70°	443.8	5.3
70°-80°	227.5	2.7
80°-90°	58.7	0.7
90°-100°	45.3	0.5
100°-110°	300.9	3.6
110°-120°	541.9	6.5
120°-130°	695.6	8.4
130°-140°	748.1	9.0
140°-150°	702.2	8.5
150°-160°	568.0	6.8
160°-170°	367.3	4.4
170°-180°	126.7	1.5
0°-30°	1312.2	15.8
0°-40°	2084.2	25.1
0°-60°	3470.0	41.8
0°-90°	4200.0	50.6
90°-120°	888.1	10.7
90°-150°	3034.1	36.6
90°-180°	4096.0	49.4
0°-180°	8296.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1777	1777	1777	1777	1777	
5°	1774	1769	1754	1767	1765	168
15°	1687	1679	1651	1649	1637	476
25°	1530	1510	1460	1443	1428	704
35°	1318	1286	1225	1186	1168	825
45°	1079	1040	966	913	892	832
55°	819	776	700	640	619	732
65°	554	509	438	384	364	549
75°	295	255	199	169	160	312
85°	74	50	43	42	40	81
90°	1	9	16	21	24	7
95°	56	53	16	21	21	69
105°	291	295	295	295	294	308
115°	546	551	552	548	542	541
125°	776	783	783	779	776	693
135°	968	974	972	970	964	746
145°	1122	1124	1124	1125	1119	702
155°	1236	1230	1232	1235	1227	569
165°	1304	1298	1299	1305	1297	368
175°	1333	1328	1328	1336	1328	127
180°	1333	1333	1333	1333	1333	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1776.8	1776.8	1776.8	1776.8	1776.8
2.5°	1780.8	1776.8	1763.4	1776.8	1775.5
5°	1774.1	1768.8	1754.0	1767.4	1764.7
7.5°	1760.7	1755.4	1737.9	1748.6	1746.0
10°	1740.6	1736.6	1717.8	1721.8	1717.8
12.5°	1717.8	1712.4	1685.6	1688.3	1681.5
15°	1686.9	1678.9	1650.7	1649.3	1637.3
17.5°	1654.7	1642.6	1609.1	1602.4	1593.0
20°	1615.8	1602.4	1559.4	1552.7	1540.6
22.5°	1572.8	1559.4	1513.8	1499.0	1489.6
25°	1529.9	1509.8	1460.1	1442.7	1427.9
27.5°	1481.6	1457.4	1405.1	1382.3	1367.5
30°	1427.9	1402.4	1346.0	1315.2	1303.1
32.5°	1375.6	1344.7	1287.0	1252.1	1236.0
35°	1317.9	1285.6	1225.3	1186.3	1167.5
37.5°	1262.8	1223.9	1162.2	1116.6	1097.8
40°	1203.8	1163.5	1099.1	1048.1	1032.0
42.5°	1142.1	1100.4	1033.3	985.0	959.5
45°	1079.0	1040.1	966.2	912.6	892.4
47.5°	1013.2	973.0	899.1	844.1	821.3
50°	951.5	907.2	830.7	774.3	754.2
52.5°	884.4	838.8	767.6	705.9	685.8
55°	818.6	775.7	700.5	640.1	618.7
57.5°	751.5	705.9	633.4	574.4	555.6
60°	687.1	640.1	567.7	508.6	488.5
62.5°	618.7	574.4	500.6	446.9	426.8
65°	554.3	508.6	437.5	383.8	363.7
67.5°	489.8	444.2	375.8	324.8	308.7
70°	424.1	378.4	311.3	269.7	253.6
72.5°	359.7	315.4	253.6	216.1	206.7
75°	295.2	255.0	198.6	169.1	159.7
77.5°	229.5	197.3	150.3	127.5	119.4
80°	174.5	142.3	104.7	92.6	89.9
82.5°	120.8	92.6	69.8	65.8	64.4
85°	73.8	49.7	42.9	41.6	40.3
87.5°	30.9	21.5	20.1	20.1	18.8
90°	1.0	8.9	15.8	20.8	23.7
92.5°	18.8	9.9	15.8	20.8	21.7
95°	56.3	53.4	15.8	20.8	20.8
97.5°	105.8	111.7	17.8	19.8	20.8
100°	165.1	168.0	172.0	24.7	20.8
102.5°	225.4	229.3	231.3	233.3	150.2
105°	290.6	294.6	294.6	294.6	293.6
107.5°	357.8	357.8	359.8	360.8	356.8
110°	423.1	423.1	425.0	422.1	423.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	484.3	487.3	488.3	484.3	482.4
115°	545.6	550.6	551.6	547.6	541.7
117.5°	609.9	609.9	613.8	607.9	605.9
120°	669.2	668.2	671.2	669.2	664.2
122.5°	721.6	726.5	727.5	725.5	719.6
125°	775.9	782.9	782.9	778.9	775.9
127.5°	828.3	833.3	832.3	830.3	822.4
130°	875.8	880.7	881.7	878.7	873.8
132.5°	923.2	929.2	926.2	926.2	921.2
135°	967.7	973.6	971.7	969.7	963.7
137.5°	1009.2	1015.1	1013.2	1013.2	1008.2
140°	1049.7	1051.7	1050.7	1052.7	1046.8
142.5°	1086.3	1087.3	1089.3	1089.3	1083.4
145°	1121.9	1123.9	1123.9	1124.9	1118.9
147.5°	1153.5	1153.5	1154.5	1155.5	1148.6
150°	1183.2	1181.2	1183.2	1185.2	1177.3
152.5°	1211.9	1206.9	1208.9	1210.9	1203.9
155°	1235.6	1229.6	1231.6	1234.6	1226.7
157.5°	1254.4	1251.4	1251.4	1254.4	1246.4
160°	1274.1	1268.2	1269.2	1273.1	1265.2
162.5°	1289.9	1284.0	1285.0	1290.9	1282.0
165°	1303.8	1297.8	1298.8	1304.8	1296.9
167.5°	1314.7	1308.7	1309.7	1316.6	1307.7
170°	1323.5	1316.6	1317.6	1325.5	1316.6
172.5°	1329.5	1322.6	1324.5	1331.5	1322.6
175°	1333.4	1327.5	1328.5	1336.4	1327.5
177.5°	1336.4	1330.5	1331.5	1338.4	1330.5
180°	1333.4	1333.4	1333.4	1333.4	1333.4

(END OF REPORT)