

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: P1028425

Luminaire Tested: S125RDIP-B1090D1090UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028425
REPORT IS A COMBINATION OF REPORTS P1004940 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D1090UB30-4F0-XX-W2A-F4
Description: Define 5 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

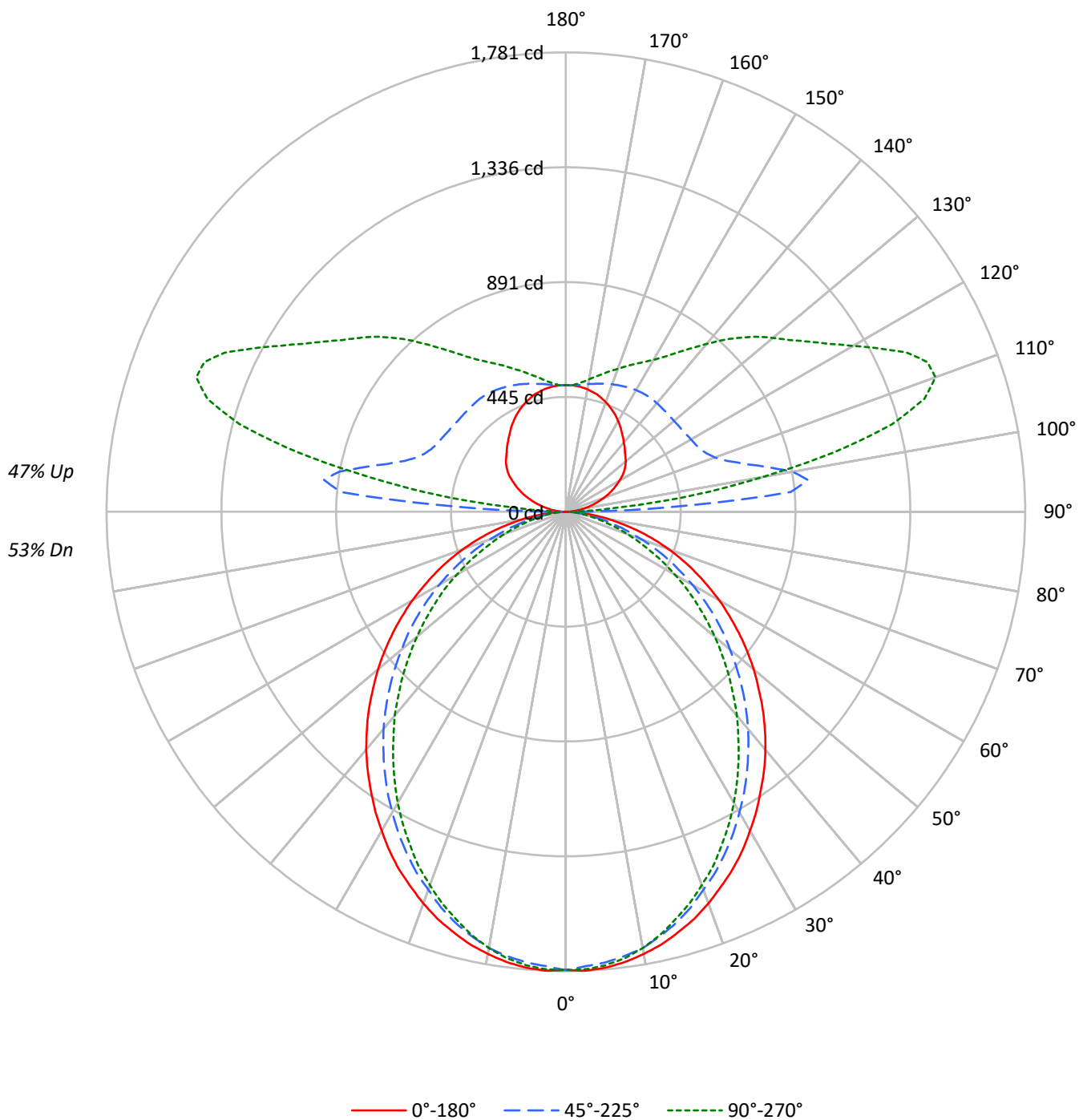
Lumens per Lamp: N/A
Luminaire Lumens: 7889.6 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	59	59	59	53
1	99	95	91	87	91	88	84	81	75	73	70	63	62	60	53	51	50	50	50	50	45
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	43	43	43	38
3	82	73	66	60	76	68	62	56	58	54	50	50	46	43	41	39	37	37	37	37	33
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32	32	32	32	28
5	69	58	50	44	64	54	47	41	47	41	37	40	36	32	34	30	28	28	28	28	25
6	64	52	44	38	59	49	41	36	42	36	32	36	32	28	31	27	25	25	25	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	28	25	28	25	22	22	22	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	26	22	20	20	20	20	17
9	51	39	32	27	47	37	30	25	32	27	23	28	23	20	24	20	18	18	18	18	16
10	48	36	29	24	44	34	27	23	30	24	21	26	21	18	22	19	16	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	2.1
10°-20°	467.3	5.9
20°-30°	677.6	8.6
30°-40°	772.0	9.8
40°-50°	752.5	9.5
50°-60°	633.3	8.0
60°-70°	443.8	5.6
70°-80°	227.5	2.9
80°-90°	58.7	0.7
90°-100°	369.2	4.7
100°-110°	766.8	9.7
110°-120°	716.2	9.1
120°-130°	579.6	7.3
130°-140°	465.6	5.9
140°-150°	351.5	4.5
150°-160°	247.5	3.1
160°-170°	145.9	1.8
170°-180°	47.4	0.6
0°-30°	1312.2	16.6
0°-40°	2084.2	26.4
0°-60°	3470.0	44.0
0°-90°	4200.0	53.2
90°-120°	1852.2	23.5
90°-150°	3248.8	41.2
90°-180°	3690.0	46.8
0°-180°	7889.6	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	23	7
95°	33	96	876	397	232	34
105°	112	156	717	1411	1310	118
115°	200	241	575	1240	1459	197
125°	277	324	552	986	1150	246
135°	324	390	548	827	955	252
145°	378	432	550	684	753	237
155°	431	464	536	605	632	198
165°	470	483	514	545	554	133
175°	489	489	493	499	497	46
180°	490	490	490	490	490	

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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	22.7
92.5°	14.8	81.0	394.4	105.2	73.1
95°	32.6	96.4	875.7	397.3	232.3
97.5°	50.4	104.3	945.9	717.5	509.0
100°	69.2	119.6	892.5	1014.0	770.9
102.5°	89.9	136.9	798.6	1265.1	1063.5
105°	111.7	156.2	716.6	1410.8	1309.6
107.5°	132.4	176.4	655.3	1451.8	1457.8
110°	155.2	197.6	614.8	1412.8	1525.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	177.9	219.0	591.0	1331.3	1517.1
115°	199.6	240.6	575.2	1239.9	1458.8
117.5°	219.4	262.9	566.3	1156.9	1370.8
120°	239.2	284.2	560.4	1087.2	1285.8
122.5°	259.9	305.0	555.5	1031.4	1210.7
125°	276.7	324.2	551.5	986.4	1149.5
127.5°	290.6	343.0	549.5	947.8	1093.1
130°	303.4	360.8	547.5	908.8	1048.6
132.5°	313.3	376.5	547.5	866.8	1004.2
135°	324.2	389.9	547.5	826.8	954.7
137.5°	338.0	402.2	548.5	784.8	903.4
140°	349.9	412.6	549.5	746.2	849.0
142.5°	363.7	422.6	550.5	713.1	798.6
145°	377.6	432.4	549.5	684.4	753.1
147.5°	392.4	441.3	547.5	659.7	712.6
150°	405.2	449.2	544.6	639.5	680.0
152.5°	419.1	457.1	540.6	622.2	654.3
155°	430.9	463.6	535.7	605.3	631.6
157.5°	441.8	470.0	530.7	589.6	610.8
160°	452.7	475.0	525.8	573.8	590.0
162.5°	461.6	479.8	519.9	559.4	571.3
165°	470.5	483.3	513.9	545.0	553.5
167.5°	476.4	485.3	508.0	531.8	536.7
170°	482.3	487.8	503.1	518.9	521.8
172.5°	486.3	488.7	497.1	508.5	508.0
175°	489.2	489.2	493.2	499.1	497.1
177.5°	491.2	489.2	490.2	493.2	490.2
180°	490.2	490.2	490.2	490.2	490.2

(END OF REPORT)