

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: P1025933

Luminaire Tested: S124RDIP-B1020D1035UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025933
REPORT IS A COMBINATION OF REPORTS P998823 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B1020D1035UB27-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

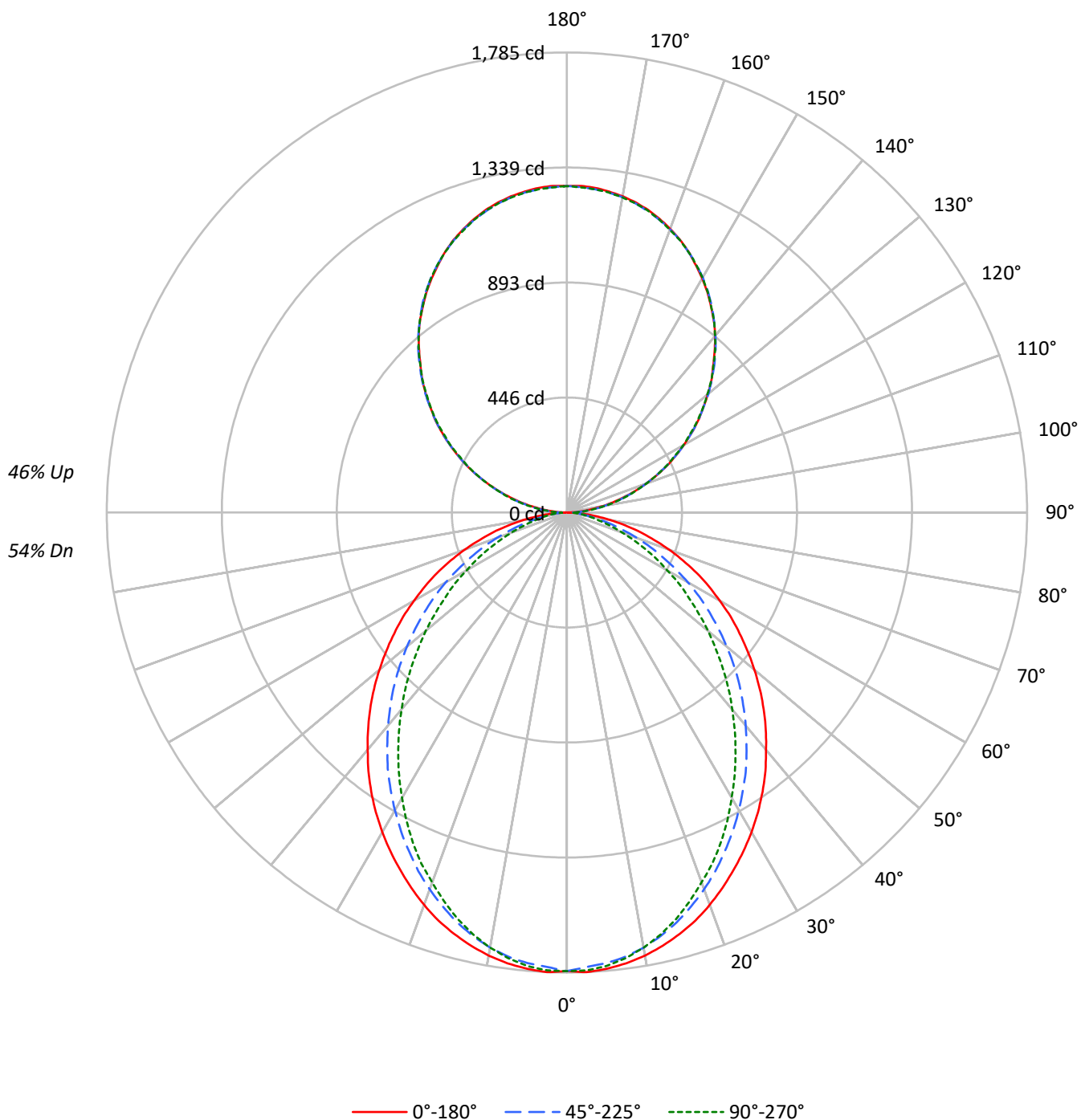
Lumens per Lamp: N/A
Luminaire Lumens: 7629.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	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	75	73	71	64	62	61	53	52	51
2	90	83	77	72	84	77	72	68	66	63	59	56	54	51	47	45	43
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	39	37
4	76	65	57	51	70	61	54	48	52	47	43	45	41	38	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	43	37	33	37	32	29	31	28	25
7	59	47	39	34	55	44	37	32	39	33	29	33	29	26	28	25	22
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20
9	51	39	32	27	48	37	30	26	32	27	23	28	24	21	24	21	18
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14512	14512	14512
5°	14513	14081	14082
10°	14391	13636	13474
15°	14192	13083	12757
20°	13933	12452	11939
25°	13610	11772	11140
30°	13293	11077	10243
35°	12945	10374	9366
40°	12531	9616	8466
45°	12142	8865	7573
50°	11701	8044	6668
55°	11223	7203	5733
60°	10692	6309	4810
65°	10182	5286	3920
70°	9455	4207	2996
75°	8521	3060	2095
80°	7119	1880	1506
85°	5356	1081	828

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12142 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	2.2
10°-20°	466.6	6.1
20°-30°	673.6	8.8
30°-40°	763.5	10.0
40°-50°	737.1	9.7
50°-60°	612.8	8.0
60°-70°	423.0	5.5
70°-80°	213.7	2.8
80°-90°	57.0	0.7
90°-100°	82.6	1.1
100°-110°	247.3	3.2
110°-120°	420.1	5.5
120°-130°	554.0	7.3
130°-140°	622.3	8.2
140°-150°	611.6	8.0
150°-160°	514.4	6.7
160°-170°	342.3	4.5
170°-180°	119.8	1.6
0°-30°	1307.6	17.1
0°-40°	2071.0	27.1
0°-60°	3421.0	44.8
0°-90°	4114.7	53.9
90°-120°	749.9	9.8
90°-150°	2537.8	33.3
90°-180°	3514.0	46.1
0°-180°	7629.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1780	1780	1780	1780	1780	
5°	1777	1771	1755	1769	1766	169
15°	1692	1680	1646	1643	1634	477
25°	1530	1506	1450	1427	1413	705
35°	1323	1280	1211	1165	1140	827
45°	1079	1029	947	880	856	832
55°	818	763	674	604	578	731
65°	556	497	410	352	335	549
75°	296	245	181	150	142	312
85°	74	46	42	40	40	81
90°	3	14	22	27	29	9
95°	59	68	74	77	77	64
105°	228	229	233	236	239	242
115°	427	427	425	424	423	421
125°	622	622	621	619	617	554
135°	802	808	808	806	803	621
145°	975	979	980	979	976	610
155°	1117	1117	1116	1120	1116	514
165°	1216	1213	1211	1217	1213	343
175°	1265	1260	1259	1266	1259	120
180°	1267	1267	1267	1267	1267	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1779.6	1779.6	1779.6	1779.6	1779.6
2.5°	1785.1	1779.6	1764.6	1779.6	1778.3
5°	1776.9	1771.4	1755.1	1768.7	1766.0
7.5°	1764.6	1759.2	1738.7	1748.3	1744.2
10°	1745.6	1738.7	1714.2	1719.7	1714.2
12.5°	1721.0	1712.8	1682.9	1685.6	1677.4
15°	1692.4	1680.1	1646.1	1643.4	1633.8
17.5°	1659.7	1642.0	1602.5	1595.7	1582.0
20°	1620.2	1602.5	1556.1	1545.2	1527.5
22.5°	1576.6	1556.1	1505.7	1488.0	1474.4
25°	1530.3	1505.7	1449.9	1426.7	1413.1
27.5°	1482.6	1452.6	1394.0	1366.7	1347.7
30°	1432.1	1398.1	1334.0	1300.0	1278.2
32.5°	1379.0	1339.5	1272.7	1231.8	1211.4
35°	1323.1	1279.5	1211.4	1165.1	1140.5
37.5°	1264.5	1219.6	1144.6	1094.2	1069.7
40°	1201.9	1156.9	1079.2	1022.0	997.5
42.5°	1141.9	1094.2	1012.4	953.9	928.0
45°	1079.2	1028.8	947.0	880.3	855.7
47.5°	1015.2	963.4	878.9	809.4	782.2
50°	949.8	896.6	809.4	741.3	715.4
52.5°	883.0	831.2	741.3	671.8	644.5
55°	817.6	763.1	674.5	603.7	577.8
57.5°	753.5	696.3	609.1	536.9	517.8
60°	684.0	629.5	542.3	471.5	449.7
62.5°	621.4	564.1	474.2	410.2	393.8
65°	556.0	497.4	410.2	351.6	335.2
67.5°	487.8	432.0	350.2	298.4	279.3
70°	423.8	366.6	288.9	243.9	230.3
72.5°	355.7	305.2	233.0	196.2	184.0
75°	295.7	245.3	181.2	149.9	141.7
77.5°	233.0	189.4	134.9	113.1	110.4
80°	173.1	133.5	92.7	88.6	87.2
82.5°	121.3	85.8	66.8	64.0	62.7
85°	73.6	46.3	42.2	39.5	39.5
87.5°	31.3	20.4	19.1	17.7	19.1
90°	2.9	13.7	21.6	27.4	29.4
92.5°	25.5	38.2	43.1	46.0	47.0
95°	58.8	67.6	74.4	77.4	77.4
97.5°	94.0	101.9	109.7	113.6	113.6
100°	137.1	141.1	149.9	151.8	151.8
102.5°	182.2	183.2	191.0	194.0	194.9
105°	228.2	229.2	233.1	236.1	239.0
107.5°	276.2	277.2	278.2	282.1	281.1
110°	325.2	327.2	326.2	324.2	327.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	376.2	376.2	374.2	374.2	374.2
115°	427.1	427.1	425.1	424.2	423.2
117.5°	475.1	475.1	474.1	471.2	468.2
120°	523.1	527.0	524.1	519.2	521.1
122.5°	573.0	574.0	573.0	570.1	565.2
125°	622.0	622.0	621.0	619.1	617.1
127.5°	666.1	669.0	667.1	665.1	664.1
130°	713.1	716.1	716.1	714.1	710.2
132.5°	761.1	763.1	762.1	760.1	759.2
135°	802.3	808.1	808.1	806.2	803.2
137.5°	848.3	851.2	853.2	850.3	851.2
140°	894.3	896.3	896.3	895.3	894.3
142.5°	936.5	938.4	937.4	937.4	937.4
145°	974.7	978.6	979.6	978.6	975.6
147.5°	1013.9	1018.7	1017.8	1016.8	1015.8
150°	1049.1	1053.0	1053.0	1053.0	1052.1
152.5°	1082.4	1084.4	1085.4	1088.3	1085.4
155°	1116.7	1116.7	1115.7	1119.6	1115.7
157.5°	1146.1	1144.1	1144.1	1147.1	1144.1
160°	1171.6	1170.6	1169.6	1172.5	1167.6
162.5°	1195.1	1192.1	1191.2	1197.0	1192.1
165°	1215.6	1212.7	1210.7	1216.6	1212.7
167.5°	1232.3	1228.4	1228.4	1234.3	1228.4
170°	1246.0	1241.1	1242.1	1248.0	1241.1
172.5°	1255.8	1251.9	1251.9	1258.7	1251.9
175°	1264.6	1259.7	1258.7	1265.6	1258.7
177.5°	1268.5	1263.6	1263.6	1270.5	1262.7
180°	1266.6	1266.6	1266.6	1266.6	1266.6

(END OF REPORT)