

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: P1026430

Luminaire Tested: S124RDIP-B575D1205UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026430
REPORT IS A COMBINATION OF REPORTS P999490 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B575D1205UB40-4F0-XX-W2A-F
Description: Define 4 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

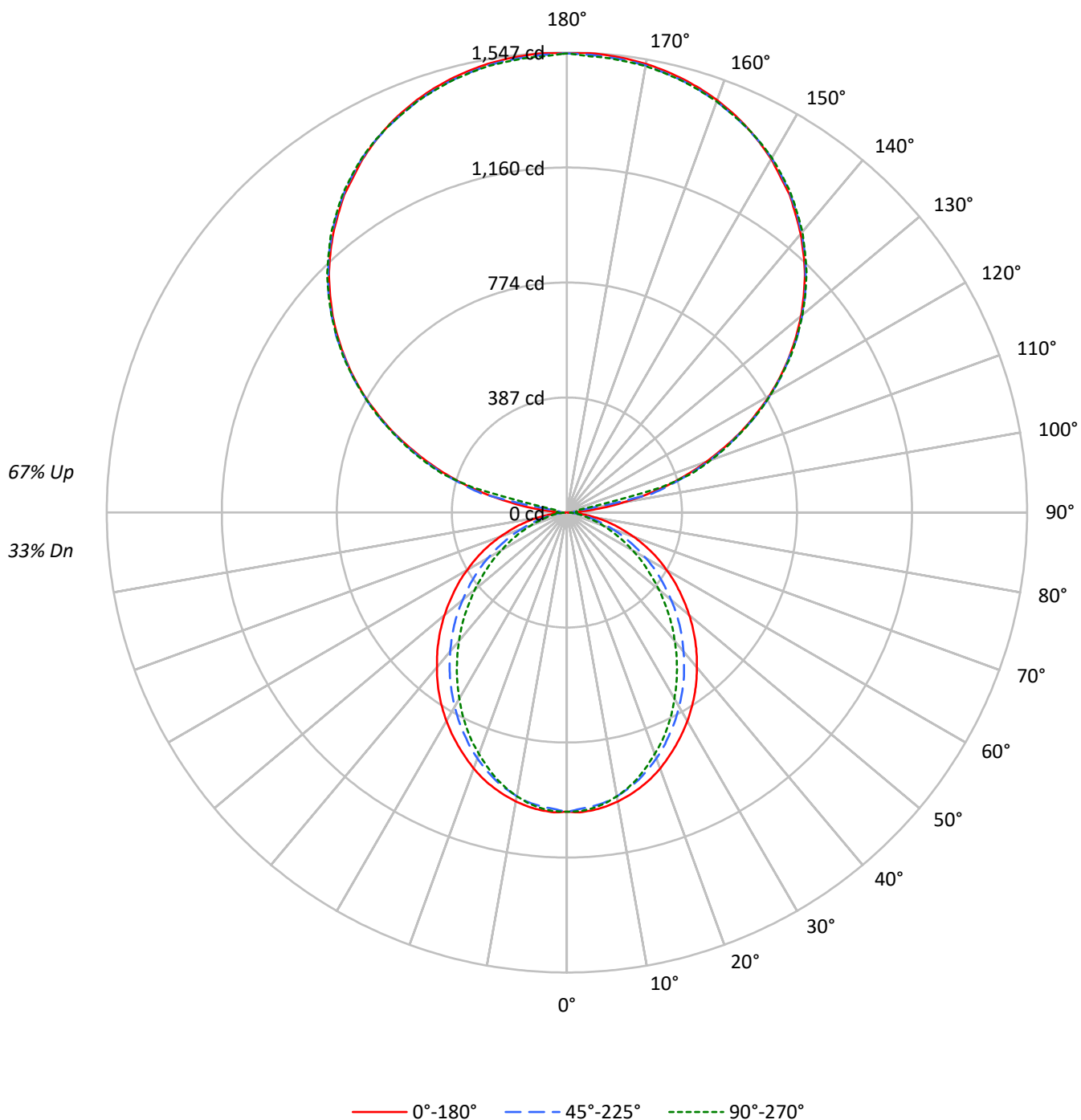
Lumens per Lamp: N/A
Luminaire Lumens: 7105.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34
2	86	79	73	68	77	71	66	62	57	54	51	44	42	40	32	30	29
3	78	69	62	57	70	63	57	52	50	46	43	39	36	34	28	26	25
4	72	61	54	48	64	56	49	44	45	40	36	35	31	29	25	23	22
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	23	21	19
6	61	49	41	36	54	44	38	33	36	31	27	28	25	22	21	18	17
7	56	44	36	31	50	40	33	29	33	28	24	26	22	19	19	17	15
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	17	15	13
9	48	36	29	24	43	33	27	23	27	22	19	21	18	15	16	14	12
10	45	33	26	22	41	30	24	20	25	20	17	20	16	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8205	8205	8205
5°	8206	7962	7962
10°	8137	7710	7618
15°	8025	7397	7213
20°	7878	7041	6750
25°	7695	6656	6299
30°	7517	6264	5792
35°	7319	5865	5296
40°	7086	5437	4787
45°	6865	5013	4283
50°	6615	4549	3770
55°	6346	4073	3242
60°	6046	3567	2720
65°	5758	2988	2216
70°	5345	2378	1694
75°	4818	1731	1184
80°	4022	1063	852
85°	3027	612	467

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6865 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	1.3
10°-20°	263.8	3.7
20°-30°	380.9	5.4
30°-40°	431.7	6.1
40°-50°	416.8	5.9
50°-60°	346.5	4.9
60°-70°	239.2	3.4
70°-80°	120.8	1.7
80°-90°	33.9	0.5
90°-100°	51.2	0.7
100°-110°	337.5	4.7
110°-120°	644.4	9.1
120°-130°	818.1	11.5
130°-140°	875.1	12.3
140°-150°	818.3	11.5
150°-160°	659.9	9.3
160°-170°	425.6	6.0
170°-180°	146.7	2.1
0°-30°	739.3	10.4
0°-40°	1171.0	16.5
0°-60°	1934.3	27.2
0°-90°	2328.2	32.8
90°-120°	1033.1	14.5
90°-150°	3544.6	49.9
90°-180°	4777.0	67.2
0°-180°	7105.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1005	1002	992	1000	998	95
15°	957	950	931	929	924	270
25°	865	851	820	807	799	399
35°	748	724	685	659	645	468
45°	610	582	536	498	484	471
55°	462	432	381	341	327	414
65°	314	281	232	199	190	310
75°	167	139	102	85	80	176
85°	42	26	24	22	22	46
90°	4	16	25	32	35	6
95°	64	24	25	32	34	78
105°	348	354	360	371	329	364
115°	649	652	651	654	654	639
125°	912	917	914	918	919	815
135°	1132	1130	1135	1137	1140	872
145°	1305	1308	1308	1309	1312	815
155°	1431	1432	1428	1433	1429	660
165°	1509	1503	1503	1512	1502	426
175°	1544	1537	1538	1548	1534	147
180°	1544	1544	1544	1544	1544	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.2	1006.2	1006.2	1006.2	1006.2
2.5°	1009.3	1006.2	997.8	1006.2	1005.5
5°	1004.7	1001.6	992.4	1000.1	998.5
7.5°	997.8	994.7	983.1	988.5	986.2
10°	987.0	983.1	969.2	972.3	969.2
12.5°	973.1	968.5	951.5	953.1	948.4
15°	956.9	950.0	930.7	929.2	923.8
17.5°	938.4	928.4	906.1	902.2	894.5
20°	916.1	906.1	879.9	873.7	863.7
22.5°	891.4	879.9	851.4	841.3	833.6
25°	865.2	851.4	819.8	806.7	799.0
27.5°	838.3	821.3	788.2	772.8	762.0
30°	809.8	790.5	754.3	735.0	722.7
32.5°	779.7	757.4	719.6	696.5	684.9
35°	748.1	723.5	684.9	658.7	644.9
37.5°	715.0	689.6	647.2	618.7	604.8
40°	679.6	654.1	610.2	577.8	564.0
42.5°	645.7	618.7	572.5	539.3	524.7
45°	610.2	581.7	535.5	497.7	483.9
47.5°	574.0	544.7	497.0	457.7	442.2
50°	537.0	507.0	457.7	419.1	404.5
52.5°	499.3	470.0	419.1	379.8	364.4
55°	462.3	431.5	381.4	341.3	326.7
57.5°	426.1	393.7	344.4	303.6	292.8
60°	386.8	356.0	306.6	266.6	254.3
62.5°	351.3	319.0	268.1	231.9	222.7
65°	314.4	281.2	231.9	198.8	189.5
67.5°	275.8	244.2	198.0	168.7	157.9
70°	239.6	207.3	163.3	137.9	130.2
72.5°	201.1	172.6	131.7	110.9	104.0
75°	167.2	138.7	102.5	84.8	80.1
77.5°	131.7	107.1	76.3	63.9	62.4
80°	97.8	75.5	52.4	50.1	49.3
82.5°	68.6	48.5	37.8	36.2	35.4
85°	41.6	26.2	23.9	22.3	22.3
87.5°	17.7	11.6	10.8	10.0	10.8
90°	3.5	16.2	25.4	32.3	34.6
92.5°	17.3	15.0	24.2	31.2	31.2
95°	63.5	24.2	25.4	32.3	33.5
97.5°	121.2	146.6	25.4	31.2	32.3
100°	189.4	210.1	50.8	31.2	32.3
102.5°	265.6	279.4	293.3	33.5	33.5
105°	347.5	354.5	360.2	370.6	329.1
107.5°	422.6	426.1	434.1	439.9	444.5
110°	498.8	502.3	509.2	511.5	515.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	572.7	579.6	581.9	580.8	585.4
115°	648.9	652.4	651.2	653.5	653.5
117.5°	717.0	721.6	725.1	723.9	723.9
120°	786.3	790.9	789.8	792.1	789.8
122.5°	851.0	853.3	855.6	856.7	854.4
125°	912.1	916.8	914.5	917.9	919.1
127.5°	971.0	972.2	978.0	976.8	975.6
130°	1027.6	1028.8	1032.2	1033.4	1033.4
132.5°	1079.6	1081.9	1086.5	1087.6	1086.5
135°	1131.5	1130.4	1135.0	1137.3	1139.6
137.5°	1177.7	1177.7	1183.5	1185.8	1184.6
140°	1222.7	1225.0	1227.4	1230.8	1232.0
142.5°	1263.1	1267.8	1268.9	1271.2	1271.2
145°	1304.7	1308.2	1308.2	1309.3	1311.6
147.5°	1337.0	1344.0	1342.8	1344.0	1345.1
150°	1372.8	1377.5	1376.3	1376.3	1377.5
152.5°	1402.9	1406.3	1404.0	1406.3	1405.2
155°	1430.6	1431.7	1428.3	1432.9	1429.4
157.5°	1454.8	1454.8	1450.2	1456.0	1450.2
160°	1475.6	1472.1	1471.0	1477.9	1471.0
162.5°	1494.1	1489.5	1488.3	1495.2	1487.1
165°	1509.1	1503.3	1503.3	1512.5	1502.2
167.5°	1521.8	1516.0	1514.9	1525.2	1513.7
170°	1532.2	1525.2	1526.4	1535.6	1524.1
172.5°	1539.1	1532.2	1533.3	1542.6	1529.9
175°	1543.7	1536.8	1537.9	1548.3	1534.5
177.5°	1547.2	1539.1	1541.4	1550.6	1536.8
180°	1543.7	1543.7	1543.7	1543.7	1543.7

(END OF REPORT)