

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: P1025762

Luminaire Tested: S124DIP-B795D1205UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025762
REPORT IS A COMBINATION OF REPORTS P996407 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D1205UB30-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

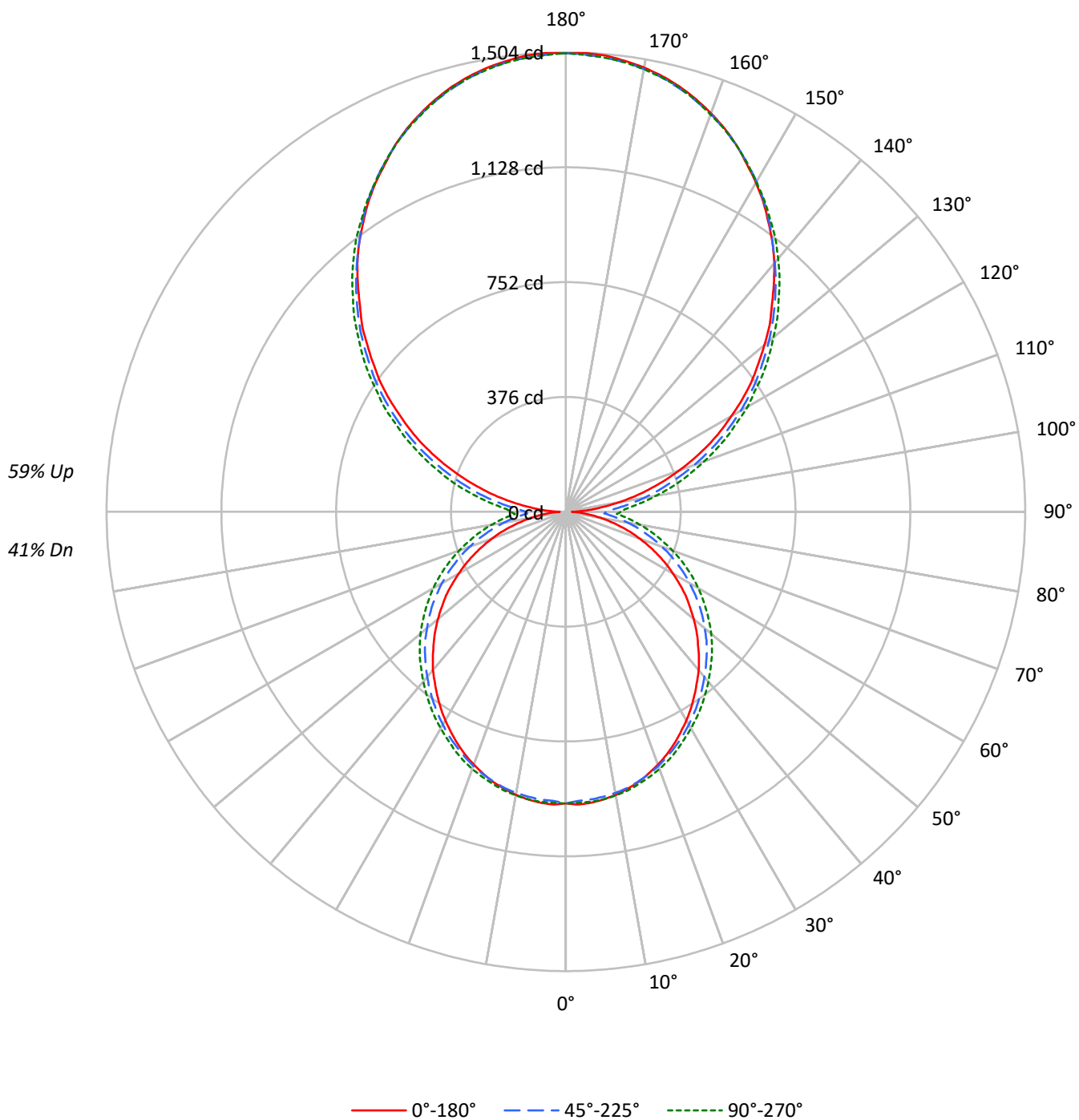
Lumens per Lamp: N/A
Luminaire Lumens: 7425.0 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 70.9
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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47
1	95	90	86	82	86	82	79	75	67	65	62	53	52	50	41	39	38
2	86	78	72	67	78	71	66	61	58	54	51	46	44	41	35	33	32
3	78	68	61	55	71	62	56	51	51	46	42	41	37	34	31	29	27
4	71	60	52	46	65	55	48	43	45	40	36	36	32	29	27	25	23
5	65	54	45	39	59	49	42	36	40	35	31	32	28	25	25	22	20
6	60	48	40	34	54	44	37	31	36	31	27	29	25	22	22	19	17
7	55	43	35	29	50	40	32	27	33	27	23	26	22	19	20	17	15
8	51	39	31	26	47	36	29	24	30	24	20	24	20	17	19	16	13
9	48	36	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12
10	45	32	25	20	40	30	23	19	25	20	16	20	16	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7788	7788	7788
5°	7809	7585	7599
10°	7758	7435	7414
15°	7686	7268	7206
20°	7578	7086	7005
25°	7457	6886	6787
30°	7325	6687	6565
35°	7177	6485	6367
40°	7059	6289	6162
45°	6882	6107	5982
50°	6732	5899	5791
55°	6577	5698	5572
60°	6336	5450	5365
65°	6071	5181	5115
70°	5749	4874	4828
75°	5300	4533	4554
80°	4796	4186	4267
85°	4126	3836	4035

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6882 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	1.2
10°-20°	259.3	3.5
20°-30°	392.0	5.3
30°-40°	474.3	6.4
40°-50°	501.4	6.8
50°-60°	471.9	6.4
60°-70°	391.5	5.3
70°-80°	274.8	3.7
80°-90°	158.1	2.1
90°-100°	190.1	2.6
100°-110°	361.4	4.9
110°-120°	543.8	7.3
120°-130°	682.5	9.2
130°-140°	748.8	10.1
140°-150°	727.2	9.8
150°-160°	609.8	8.2
160°-170°	405.7	5.5
170°-180°	142.1	1.9
0°-30°	741.8	10.0
0°-40°	1216.0	16.4
0°-60°	2189.2	29.5
0°-90°	3013.7	40.6
90°-120°	1095.3	14.8
90°-150°	3253.8	43.8
90°-180°	4411.0	59.4
0°-180°	7425.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	956	953	945	954	953	91
15°	916	918	914	924	923	258
25°	838	845	848	860	861	386
35°	734	746	757	772	775	459
45°	612	632	652	670	676	473
55°	479	502	534	555	562	427
65°	332	366	402	429	437	329
75°	184	224	268	298	308	195
85°	57	102	150	182	192	59
90°	21	76	131	169	180	17
95°	84	129	181	214	223	87
105°	280	303	347	377	389	298
115°	513	522	554	577	583	506
125°	742	740	766	784	788	661
135°	953	960	968	982	985	738
145°	1156	1160	1161	1166	1167	724
155°	1324	1324	1323	1327	1323	609
165°	1441	1438	1435	1442	1438	406
175°	1499	1493	1492	1500	1492	142
180°	1501	1501	1501	1501	1501	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	955.0	955.0	955.0	955.0	955.0
2.5°	959.3	956.1	947.5	955.0	953.9
5°	956.1	952.9	945.4	953.9	952.9
7.5°	949.7	947.5	941.1	950.7	949.7
10°	941.1	940.0	934.7	944.3	943.2
12.5°	929.3	929.3	926.1	934.7	934.7
15°	916.5	917.6	914.4	924.0	922.9
17.5°	899.4	902.6	901.5	911.2	910.1
20°	881.2	884.4	885.5	896.2	896.2
22.5°	860.9	865.2	867.3	878.0	880.1
25°	838.4	844.9	848.1	859.8	860.9
27.5°	813.8	823.5	827.7	838.4	839.5
30°	789.2	797.8	805.3	817.0	819.2
32.5°	762.5	773.2	781.8	795.7	797.8
35°	733.6	746.5	757.2	772.1	775.3
37.5°	704.8	719.7	732.6	747.5	750.7
40°	677.0	690.9	705.8	721.9	726.1
42.5°	644.9	660.9	679.1	697.3	700.5
45°	611.7	632.0	652.4	670.5	675.9
47.5°	580.7	601.0	624.5	642.7	649.1
50°	546.5	570.0	593.5	614.9	621.3
52.5°	512.3	535.8	563.6	585.0	591.4
55°	479.1	501.6	533.6	555.0	561.5
57.5°	441.7	469.5	500.5	526.2	531.5
60°	405.3	433.1	468.4	493.0	501.6
62.5°	370.0	401.0	436.3	460.9	469.5
65°	331.5	365.7	402.1	428.8	437.4
67.5°	295.2	331.5	370.0	396.8	405.3
70°	257.7	294.1	334.7	363.6	371.1
72.5°	221.4	258.8	302.6	330.5	339.0
75°	183.9	223.5	268.4	298.4	308.0
77.5°	148.7	190.4	237.4	267.4	278.1
80°	116.6	159.3	206.4	238.5	247.0
82.5°	84.5	129.4	176.5	209.6	219.2
85°	56.7	101.6	149.7	181.8	192.5
87.5°	35.3	79.1	126.2	157.2	166.8
90°	20.6	76.2	131.4	169.4	180.2
92.5°	46.2	98.8	150.6	184.0	193.7
95°	83.6	129.3	181.2	213.6	223.2
97.5°	124.3	164.6	217.8	250.2	259.8
100°	174.4	206.8	259.0	290.2	297.6
102.5°	227.8	252.4	302.3	333.6	343.4
105°	280.2	302.7	347.0	377.1	389.2
107.5°	337.0	356.4	395.0	426.4	432.8
110°	394.1	411.3	447.7	469.9	481.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	453.4	466.2	499.2	522.7	531.3
115°	512.7	522.3	554.2	576.6	582.9
117.5°	569.6	576.0	606.9	625.9	630.9
120°	625.4	633.3	660.8	676.4	687.2
122.5°	684.6	685.7	713.5	731.4	733.1
125°	741.6	740.5	766.1	784.2	788.2
127.5°	793.9	796.3	815.4	832.2	838.6
130°	848.5	850.9	868.0	885.0	886.7
132.5°	905.4	906.6	918.4	934.3	939.5
135°	953.1	960.1	967.6	982.3	985.4
137.5°	1007.7	1010.2	1016.7	1029.3	1035.8
140°	1062.2	1063.6	1064.6	1077.3	1081.5
142.5°	1111.2	1113.5	1111.2	1123.0	1127.2
145°	1156.5	1160.0	1161.2	1166.4	1167.2
147.5°	1202.9	1207.6	1206.4	1206.4	1209.4
150°	1244.7	1248.3	1248.3	1248.3	1247.1
152.5°	1283.1	1285.4	1286.6	1290.1	1286.6
155°	1323.7	1323.7	1322.6	1327.2	1322.6
157.5°	1358.6	1356.2	1356.2	1359.7	1356.2
160°	1388.8	1387.6	1386.4	1389.9	1384.1
162.5°	1416.6	1413.1	1412.0	1418.9	1413.1
165°	1441.0	1437.5	1435.2	1442.2	1437.5
167.5°	1460.7	1456.1	1456.1	1463.1	1456.1
170°	1477.0	1471.2	1472.4	1479.3	1471.2
172.5°	1488.6	1484.0	1484.0	1492.1	1484.0
175°	1499.1	1493.3	1492.1	1500.2	1492.1
177.5°	1503.7	1497.9	1497.9	1506.0	1496.7
180°	1501.4	1501.4	1501.4	1501.4	1501.4

(END OF REPORT)