

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: P1025771

Luminaire Tested: S124DIP-B795D1205UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025771
REPORT IS A COMBINATION OF REPORTS P996416 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D1205UB35-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

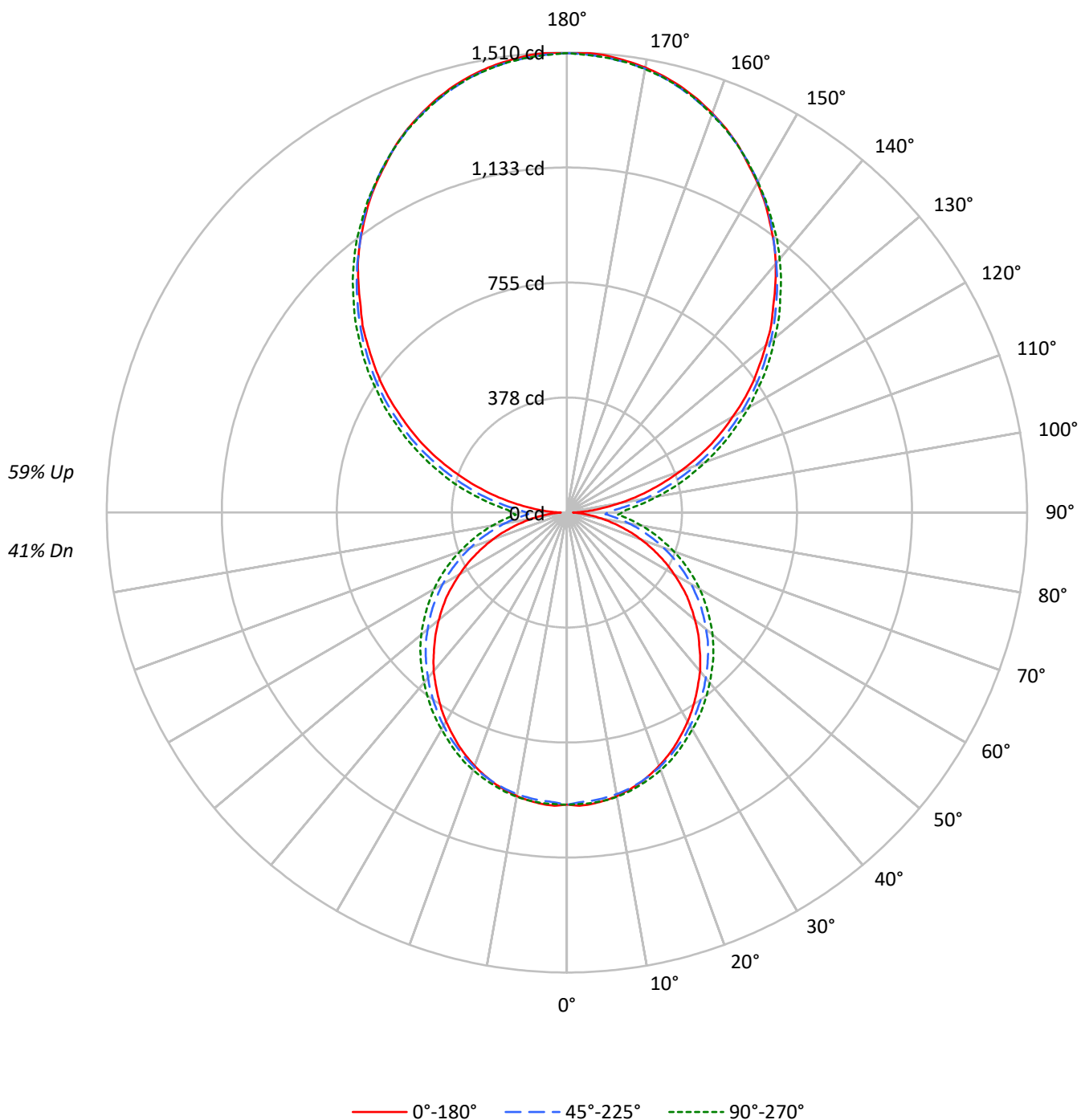
Lumens per Lamp: N/A
Luminaire Lumens: 7457.0 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1025771

CATALOG NUMBER: S124DIP-B795D1205UB35-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1025771

CATALOG NUMBER: S124DIP-B795D1205UB35-4F0-XX-W2A-D1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	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	47	47	41
1	95	90	86	82	86	82	79	75	67	65	62	53	52	50	41	39	38	38	38	32
2	86	78	72	67	78	71	66	61	58	54	51	46	44	41	35	33	32	32	32	27
3	78	68	61	55	71	62	56	51	51	46	42	41	37	34	31	29	27	27	27	22
4	71	60	52	46	65	55	48	43	45	40	36	36	32	29	27	25	23	23	23	19
5	65	54	45	39	59	49	42	36	40	35	31	32	28	25	25	22	20	20	20	16
6	60	48	40	34	54	44	37	31	36	31	27	29	25	22	22	19	17	17	17	14
7	55	43	35	29	50	40	32	27	33	27	23	26	22	19	20	17	15	15	15	12
8	51	39	31	26	47	36	29	24	30	24	20	24	20	17	19	16	13	13	13	11
9	48	36	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12	12	12	10
10	45	32	25	20	40	30	23	19	25	20	16	20	16	14	16	13	11	11	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7821	7821	7821
5°	7843	7617	7631
10°	7791	7467	7446
15°	7718	7299	7237
20°	7611	7116	7034
25°	7489	6915	6816
30°	7357	6715	6593
35°	7208	6512	6395
40°	7089	6317	6190
45°	6911	6133	6008
50°	6761	5924	5816
55°	6605	5723	5595
60°	6364	5473	5387
65°	6097	5203	5138
70°	5774	4896	4849
75°	5323	4553	4573
80°	4816	4204	4286
85°	4141	3854	4052

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6911 cd/sqm

TEST NUMBER: P1025771

CATALOG NUMBER: S124DIP-B795D1205UB35-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.2
10°-20°	260.4	3.5
20°-30°	393.7	5.3
30°-40°	476.3	6.4
40°-50°	503.5	6.8
50°-60°	473.9	6.4
60°-70°	393.2	5.3
70°-80°	276.0	3.7
80°-90°	158.8	2.1
90°-100°	190.9	2.6
100°-110°	363.0	4.9
110°-120°	546.1	7.3
120°-130°	685.5	9.2
130°-140°	752.0	10.1
140°-150°	730.3	9.8
150°-160°	612.4	8.2
160°-170°	407.5	5.5
170°-180°	142.7	1.9
0°-30°	744.9	10.0
0°-40°	1221.2	16.4
0°-60°	2198.6	29.5
0°-90°	3026.6	40.6
90°-120°	1100.0	14.8
90°-150°	3267.8	43.8
90°-180°	4430.0	59.4
0°-180°	7457.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	959	959	959	959	959	
5°	960	957	949	958	957	91
15°	920	922	918	928	927	259
25°	842	848	852	864	865	388
35°	737	750	760	776	779	461
45°	614	635	655	673	679	475
55°	481	504	536	557	564	429
65°	333	367	404	431	439	330
75°	185	224	270	300	309	196
85°	57	102	150	183	193	59
90°	21	76	132	170	181	17
95°	84	130	182	214	224	87
105°	281	304	348	379	391	299
115°	515	525	557	579	585	508
125°	745	744	770	788	792	664
135°	957	964	972	987	990	741
145°	1161	1165	1166	1171	1172	727
155°	1329	1329	1328	1333	1328	612
165°	1447	1444	1441	1448	1444	408
175°	1506	1500	1498	1507	1498	143
180°	1508	1508	1508	1508	1508	

TEST NUMBER: P1025771

CATALOG NUMBER: S124DIP-B795D1205UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	959.1	959.1	959.1	959.1	959.1
2.5°	963.4	960.2	951.6	959.1	958.0
5°	960.2	957.0	949.4	958.0	957.0
7.5°	953.7	951.6	945.1	954.8	953.7
10°	945.1	944.1	938.7	948.4	947.3
12.5°	933.3	933.3	930.1	938.7	938.7
15°	920.4	921.5	918.3	928.0	926.9
17.5°	903.3	906.5	905.4	915.1	914.0
20°	885.0	888.2	889.3	900.0	900.0
22.5°	864.6	868.9	871.0	881.8	883.9
25°	842.0	848.5	851.7	863.5	864.6
27.5°	817.3	827.0	831.3	842.0	843.1
30°	792.6	801.2	808.7	820.6	822.7
32.5°	765.8	776.5	785.1	799.1	801.2
35°	736.8	749.7	760.4	775.5	778.7
37.5°	707.8	722.8	735.7	750.7	754.0
40°	679.9	693.8	708.9	725.0	729.3
42.5°	647.6	663.8	682.0	700.3	703.5
45°	614.3	634.8	655.2	673.4	678.8
47.5°	583.2	603.6	627.2	645.5	651.9
50°	548.8	572.5	596.1	617.6	624.0
52.5°	514.5	538.1	566.0	587.5	593.9
55°	481.2	503.7	535.9	557.4	563.9
57.5°	443.6	471.5	502.6	528.4	533.8
60°	407.1	435.0	470.4	495.1	503.7
62.5°	371.6	402.8	438.2	462.9	471.5
65°	332.9	367.3	403.8	430.7	439.3
67.5°	296.4	332.9	371.6	398.5	407.1
70°	258.8	295.4	336.2	365.2	372.7
72.5°	222.3	259.9	304.0	331.9	340.5
75°	184.7	224.5	269.6	299.7	309.3
77.5°	149.3	191.2	238.4	268.5	279.2
80°	117.1	160.0	207.3	239.5	248.1
82.5°	84.8	130.0	177.2	210.5	220.2
85°	56.9	102.0	150.4	182.6	193.3
87.5°	35.4	79.5	126.7	157.9	167.5
90°	20.7	76.4	132.0	170.2	181.1
92.5°	46.4	99.2	151.2	184.8	194.6
95°	84.0	129.9	182.0	214.5	224.2
97.5°	124.9	165.3	218.7	251.3	261.0
100°	175.1	207.6	260.0	291.4	298.9
102.5°	228.7	253.5	303.7	335.1	344.9
105°	281.4	304.0	348.5	378.7	390.8
107.5°	338.6	357.9	396.7	428.3	434.6
110°	395.8	413.1	449.5	471.9	484.0

TEST NUMBER: P1025771

CATALOG NUMBER: S124DIP-B795D1205UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	455.3	468.2	501.3	525.0	533.6
115°	514.9	524.6	556.6	579.1	585.4
117.5°	572.0	578.5	609.5	628.6	633.7
120°	628.1	636.0	663.6	679.3	690.2
122.5°	687.6	688.8	716.6	734.5	736.3
125°	744.8	743.7	769.5	787.5	791.6
127.5°	797.3	799.7	818.9	835.8	842.3
130°	852.2	854.6	871.8	888.8	890.6
132.5°	909.3	910.6	922.3	938.3	943.5
135°	957.2	964.2	971.8	986.7	989.6
137.5°	1012.0	1014.5	1021.1	1033.7	1040.3
140°	1066.8	1068.2	1069.2	1082.0	1086.2
142.5°	1116.0	1118.3	1116.0	1127.8	1132.1
145°	1161.4	1165.0	1166.2	1171.4	1172.2
147.5°	1208.1	1212.8	1211.7	1211.6	1214.7
150°	1250.1	1253.6	1253.6	1253.6	1252.5
152.5°	1288.6	1291.0	1292.1	1295.6	1292.1
155°	1329.4	1329.4	1328.3	1332.9	1328.3
157.5°	1364.4	1362.1	1362.1	1365.6	1362.1
160°	1394.7	1393.6	1392.4	1395.9	1390.1
162.5°	1422.7	1419.2	1418.1	1425.1	1419.2
165°	1447.2	1443.7	1441.4	1448.4	1443.7
167.5°	1467.1	1462.4	1462.4	1469.4	1462.4
170°	1483.4	1477.5	1478.7	1485.7	1477.5
172.5°	1495.0	1490.4	1490.4	1498.5	1490.4
175°	1505.5	1499.7	1498.5	1506.7	1498.5
177.5°	1510.2	1504.4	1504.4	1512.5	1503.2
180°	1507.9	1507.9	1507.9	1507.9	1507.9

(END OF REPORT)