

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: P1025707

Luminaire Tested: S124DIP-B795D1035UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025707
REPORT IS A COMBINATION OF REPORTS P996322 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D1035UB27-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

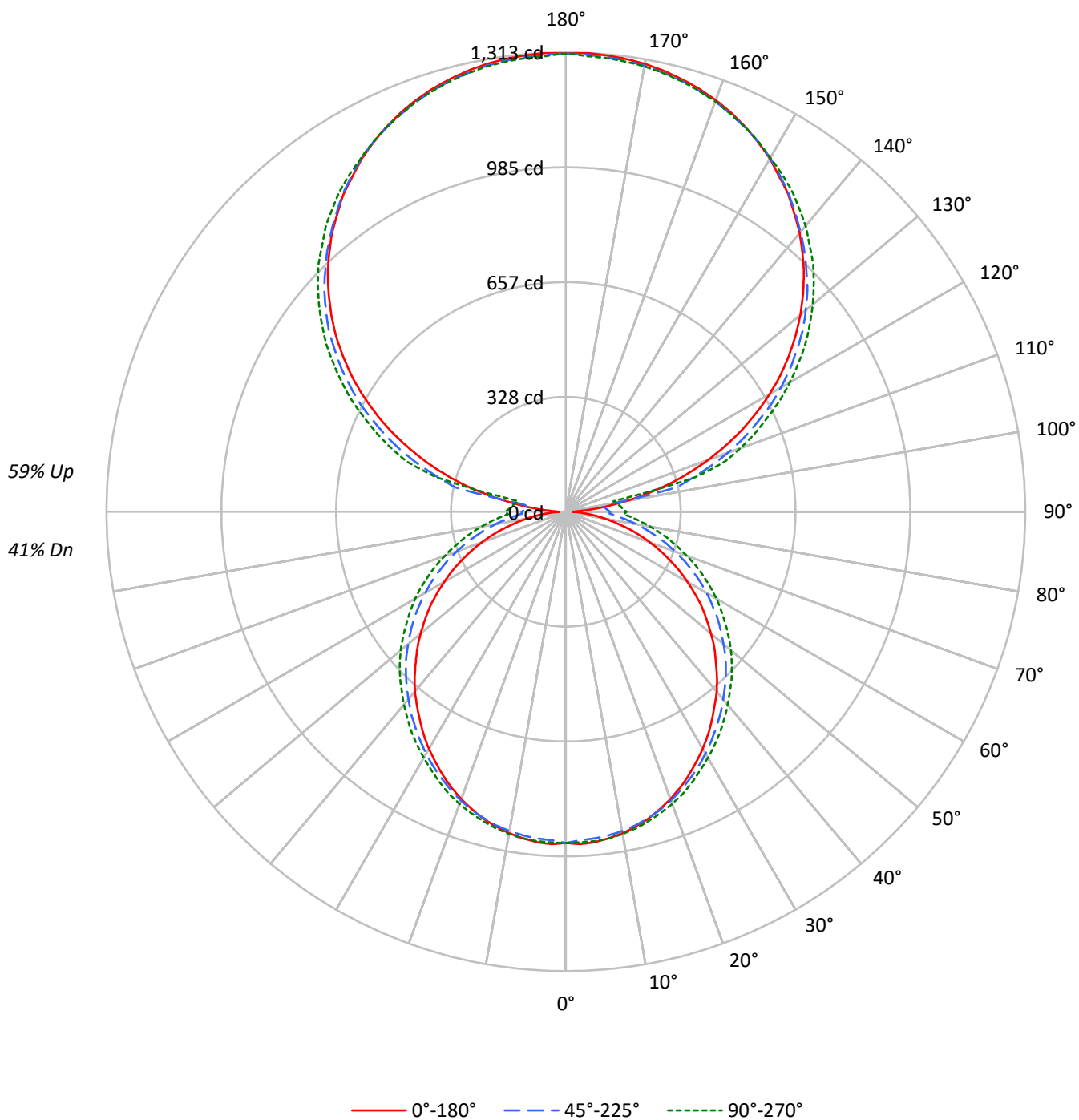
Lumens per Lamp: N/A
Luminaire Lumens: 7284.0 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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: P1025707

CATALOG NUMBER: S124DIP-B795D1035UB27-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1025707

CATALOG NUMBER: S124DIP-B795D1035UB27-4F0-XX-W2A-D

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	48	48	48
1	95	90	86	82	86	82	79	76	67	65	63	54	52	50	41	40	39
2	86	78	72	67	78	71	66	61	59	55	51	47	44	41	36	34	32
3	78	69	61	55	71	63	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	28	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	20	17
7	56	43	35	30	50	40	32	27	33	27	23	26	22	19	20	17	15
8	51	39	31	26	47	36	29	24	30	24	21	24	20	17	19	16	14
9	48	36	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12
10	45	33	25	20	41	30	23	19	25	20	16	20	16	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7721	7721	7721
5°	7742	7519	7533
10°	7692	7371	7350
15°	7619	7205	7144
20°	7513	7025	6944
25°	7393	6827	6729
30°	7263	6630	6508
35°	7116	6428	6313
40°	6997	6236	6110
45°	6824	6054	5931
50°	6674	5848	5741
55°	6520	5650	5523
60°	6281	5403	5319
65°	6020	5136	5071
70°	5700	4833	4786
75°	5256	4494	4514
80°	4754	4149	4230
85°	4090	3803	3999

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6824 cd/sqm

TEST NUMBER: P1025707

CATALOG NUMBER: S124DIP-B795D1035UB27-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.2
10°-20°	257.0	3.5
20°-30°	388.6	5.3
30°-40°	470.2	6.5
40°-50°	497.1	6.8
50°-60°	467.8	6.4
60°-70°	388.2	5.3
70°-80°	272.4	3.7
80°-90°	156.3	2.1
90°-100°	134.9	1.9
100°-110°	354.1	4.9
110°-120°	592.2	8.1
120°-130°	719.7	9.9
130°-140°	753.6	10.3
140°-150°	696.6	9.6
150°-160°	560.0	7.7
160°-170°	361.1	5.0
170°-180°	124.5	1.7
0°-30°	735.4	10.1
0°-40°	1205.6	16.6
0°-60°	2170.4	29.8
0°-90°	2987.3	41.0
90°-120°	1081.2	14.8
90°-150°	3251.2	44.6
90°-180°	4297.0	59.0
0°-180°	7284.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	948	945	937	946	945	90
15°	909	910	906	916	915	256
25°	831	838	841	852	854	383
35°	727	740	751	766	769	455
45°	606	627	647	665	670	469
55°	475	497	529	550	557	423
65°	329	363	399	425	434	326
75°	182	222	266	296	305	194
85°	56	101	148	180	191	59
90°	20	73	127	163	174	14
95°	68	69	114	148	159	77
105°	304	332	376	411	384	319
115°	557	569	602	628	635	549
125°	778	781	806	829	836	695
135°	962	961	973	992	1000	742
145°	1108	1110	1110	1117	1124	693
155°	1214	1215	1212	1216	1213	560
165°	1280	1276	1276	1283	1275	362
175°	1310	1304	1305	1314	1302	125
180°	1310	1310	1310	1310	1310	

TEST NUMBER: P1025707

CATALOG NUMBER: S124DIP-B795D1035UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	946.8	946.8	946.8	946.8	946.8
2.5°	951.0	947.9	939.4	946.8	945.7
5°	947.9	944.7	937.2	945.7	944.7
7.5°	941.5	939.4	933.0	942.6	941.5
10°	933.0	931.9	926.6	936.2	935.1
12.5°	921.3	921.3	918.2	926.6	926.6
15°	908.6	909.7	906.5	916.0	915.0
17.5°	891.7	894.8	893.8	903.3	902.3
20°	873.6	876.8	877.9	888.5	888.5
22.5°	853.5	857.7	859.9	870.5	872.6
25°	831.2	837.6	840.8	852.4	853.5
27.5°	806.8	816.4	820.6	831.2	832.3
30°	782.5	790.9	798.4	810.0	812.1
32.5°	755.9	766.6	775.0	788.8	790.9
35°	727.3	740.0	750.6	765.5	768.7
37.5°	698.7	713.5	726.3	741.1	744.3
40°	671.1	684.9	699.8	715.7	719.9
42.5°	639.3	655.2	673.3	691.3	694.5
45°	606.5	626.6	646.7	664.8	670.1
47.5°	575.7	595.9	619.2	637.2	643.6
50°	541.8	565.1	588.4	609.6	616.0
52.5°	507.9	531.2	558.7	579.9	586.3
55°	475.0	497.3	529.1	550.3	556.6
57.5°	437.9	465.4	496.2	521.6	526.9
60°	401.8	429.4	464.4	488.8	497.3
62.5°	366.8	397.6	432.6	457.0	465.4
65°	328.7	362.6	398.6	425.2	433.6
67.5°	292.6	328.7	366.8	393.3	401.8
70°	255.5	291.6	331.9	360.5	367.9
72.5°	219.5	256.6	300.0	327.6	336.1
75°	182.4	221.6	266.1	295.8	305.3
77.5°	147.4	188.7	235.4	265.1	275.7
80°	115.6	158.0	204.6	236.4	244.9
82.5°	83.8	128.3	174.9	207.8	217.3
85°	56.2	100.7	148.4	180.2	190.8
87.5°	35.0	78.5	125.1	155.9	165.4
90°	19.9	73.1	126.6	163.1	173.6
92.5°	30.6	65.7	119.2	154.8	163.3
95°	67.7	69.4	113.8	148.3	158.8
97.5°	115.6	167.9	108.5	141.0	151.4
100°	172.4	217.5	123.7	135.7	144.0
102.5°	237.0	272.1	324.2	131.2	139.7
105°	304.4	331.5	375.7	411.0	384.2
107.5°	368.1	389.1	433.1	464.5	475.8
110°	431.7	449.5	492.5	518.8	530.3

TEST NUMBER: P1025707

CATALOG NUMBER: S124DIP-B795D1035UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	493.3	511.9	548.9	571.3	583.6
115°	557.0	569.4	602.4	627.7	635.1
117.5°	614.8	625.0	659.8	681.1	689.6
120°	672.5	679.6	709.3	732.5	739.0
122.5°	727.4	729.3	759.9	782.1	787.6
125°	778.2	781.1	805.6	828.7	836.1
127.5°	828.2	828.1	854.2	872.4	878.8
130°	875.2	875.0	895.0	915.1	921.4
132.5°	919.2	920.1	936.7	955.8	961.1
135°	962.2	961.3	972.6	991.5	999.9
137.5°	1001.4	1000.4	1009.5	1027.4	1031.7
140°	1039.6	1040.6	1043.6	1060.3	1066.6
142.5°	1072.9	1076.8	1076.7	1090.4	1094.6
145°	1108.2	1110.0	1110.0	1117.4	1123.6
147.5°	1135.6	1140.4	1139.4	1141.5	1146.7
150°	1166.0	1168.8	1167.8	1167.8	1168.8
152.5°	1190.4	1193.3	1191.4	1193.3	1192.3
155°	1213.9	1214.9	1211.9	1215.8	1212.9
157.5°	1234.5	1234.5	1230.5	1235.4	1230.5
160°	1252.1	1249.2	1248.2	1254.1	1248.2
162.5°	1267.8	1263.9	1262.9	1268.8	1261.9
165°	1280.5	1275.6	1275.6	1283.4	1274.6
167.5°	1291.3	1286.4	1285.4	1294.2	1284.4
170°	1300.1	1294.2	1295.2	1303.0	1293.2
172.5°	1306.0	1300.1	1301.1	1308.9	1298.1
175°	1309.9	1304.0	1305.0	1313.8	1302.1
177.5°	1312.8	1306.0	1307.9	1315.8	1304.0
180°	1309.9	1309.9	1309.9	1309.9	1309.9

(END OF REPORT)