

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: P1025709

Luminaire Tested: S124DIP-B795D1035UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025709
REPORT IS A COMBINATION OF REPORTS P996324 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D1035UB27-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

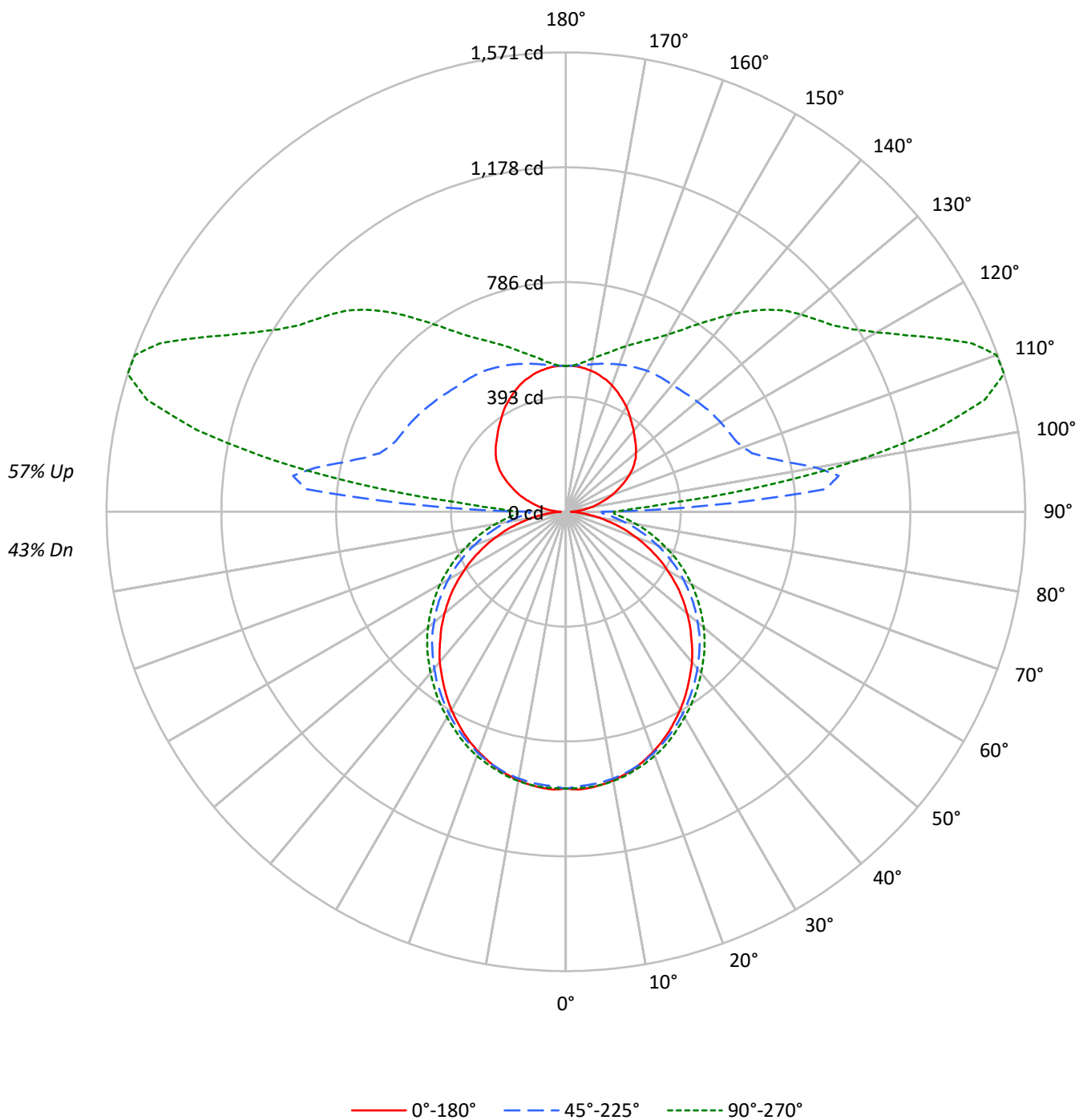
Lumens per Lamp: N/A
Luminaire Lumens: 6869.3 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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

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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
RCR																	
0	106	106	106	106	97	97	97	97	80	80	80		64	64	64		50
1	95	91	87	83	87	83	79	76	69	66	64		55	53	52		43
2	87	79	72	67	79	72	66	62	59	55	52		48	45	42		37
3	79	69	61	55	71	63	56	51	52	47	43		42	38	35		33
4	72	61	53	46	65	56	49	43	46	41	36		37	33	30		29
5	66	54	46	39	60	49	42	37	41	35	31		33	29	26		26
6	60	48	40	34	55	44	37	32	37	31	27		30	26	22		23
7	56	43	35	30	51	40	33	28	33	28	24		27	23	20		21
8	52	39	31	26	47	36	29	24	30	25	21		25	21	18		20
9	48	36	28	23	44	33	26	22	28	22	19		23	19	16		18
10	45	33	25	21	41	30	24	19	25	20	17		21	17	14		17

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.3
10°-20°	257.0	3.7
20°-30°	388.6	5.7
30°-40°	470.2	6.8
40°-50°	497.1	7.2
50°-60°	467.8	6.8
60°-70°	388.2	5.7
70°-80°	272.4	4.0
80°-90°	155.5	2.3
90°-100°	461.9	6.7
100°-110°	821.1	12.0
110°-120°	717.0	10.4
120°-130°	589.7	8.6
130°-140°	481.8	7.0
140°-150°	361.7	5.3
150°-160°	252.7	3.7
160°-170°	148.6	2.2
170°-180°	48.3	0.7
0°-30°	735.4	10.7
0°-40°	1205.6	17.5
0°-60°	2170.4	31.6
0°-90°	2986.5	43.5
90°-120°	1999.9	29.1
90°-150°	3433.1	50.0
90°-180°	3883.0	56.5
0°-180°	6869.3	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°	18	67	123	155	165	14
95°	46	151	891	516	370	46
105°	124	197	713	1480	1484	133
115°	208	269	623	1174	1404	207
125°	285	337	600	987	1112	255
135°	336	400	575	858	977	260
145°	386	441	562	708	782	242
155°	438	473	547	619	646	202
165°	477	492	524	555	563	135
175°	498	499	503	510	508	47
180°	499	499	499	499	499	

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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°	18.0	67.2	122.6	155.3	164.8
92.5°	29.6	128.4	482.7	255.2	226.0
95°	46.1	150.7	890.7	516.2	369.5
97.5°	66.6	156.2	941.2	921.8	698.1
100°	86.2	166.6	868.3	1226.0	1015.0
102.5°	105.8	180.0	779.7	1413.7	1291.9
105°	124.1	196.8	712.7	1480.4	1483.5
107.5°	146.7	215.2	667.2	1453.0	1571.1
110°	168.2	232.4	644.3	1368.2	1567.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.7	250.8	630.2	1265.9	1503.6
115°	208.2	269.2	622.9	1174.4	1404.2
117.5°	229.8	287.0	616.7	1100.4	1307.8
120°	250.2	303.4	611.4	1048.4	1226.9
122.5°	269.8	320.3	605.1	1013.3	1161.9
125°	285.4	337.3	599.9	987.0	1112.4
127.5°	301.1	354.9	592.6	960.6	1079.6
130°	312.8	371.0	586.4	931.2	1049.7
132.5°	325.5	385.7	581.1	897.6	1018.0
135°	336.2	399.8	574.8	858.3	977.4
137.5°	347.9	411.2	570.6	817.8	930.8
140°	360.7	422.4	566.4	778.2	881.4
142.5°	373.4	432.6	564.3	742.1	829.1
145°	386.1	440.9	562.4	707.9	781.6
147.5°	400.8	449.7	559.4	678.6	737.2
150°	414.5	458.0	556.5	655.4	699.5
152.5°	426.2	465.8	551.6	636.8	670.1
155°	437.9	472.8	546.7	619.2	645.6
157.5°	449.7	479.1	541.8	602.5	623.1
160°	460.5	484.5	535.9	585.9	602.5
162.5°	470.3	488.9	530.0	569.7	582.9
165°	477.1	491.8	524.2	555.0	563.3
167.5°	485.0	494.2	518.3	542.3	547.7
170°	489.9	496.2	512.4	529.6	533.0
172.5°	494.8	497.7	506.5	518.3	518.3
175°	497.7	498.7	502.6	509.5	507.5
177.5°	499.7	498.7	499.7	503.1	499.7
180°	498.7	498.7	498.7	498.7	498.7

(END OF REPORT)