

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: P1025727

Luminaire Tested: S124DIP-B795D1035UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025727
REPORT IS A COMBINATION OF REPORTS P996357 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D1035UB35-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

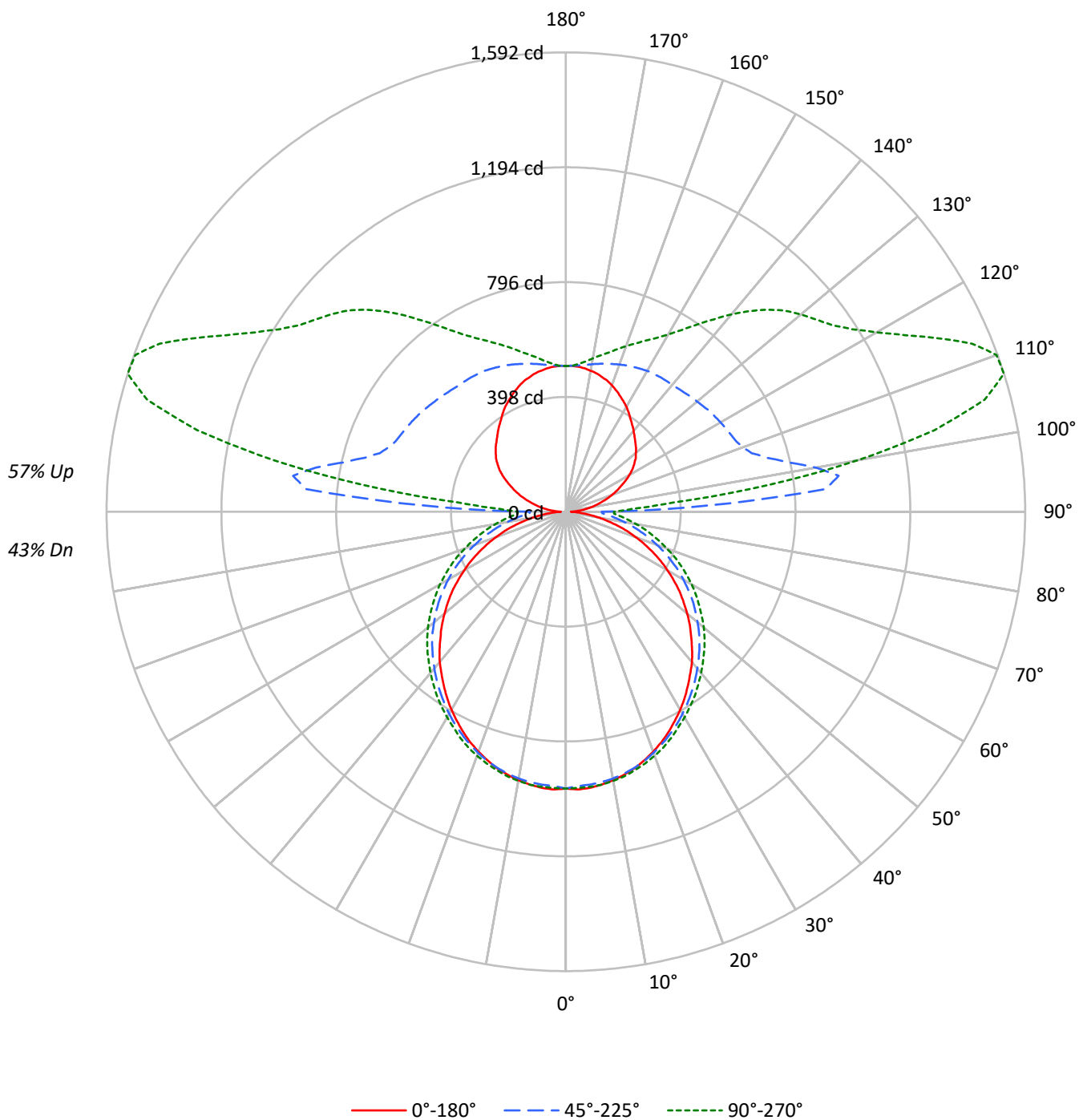
Lumens per Lamp: N/A
Luminaire Lumens: 6959.3 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50
1	95	91	87	83	87	83	79	76	69	66	64	55	53	52	43	42	41
2	87	79	72	67	79	72	66	62	59	55	52	48	45	42	37	35	33
3	79	69	61	55	71	63	56	51	52	47	43	42	38	35	33	30	28
4	72	61	53	46	65	56	49	43	46	41	36	37	33	30	29	26	24
5	66	54	46	39	60	49	42	37	41	35	31	33	29	26	26	23	21
6	60	48	40	34	55	44	37	32	37	31	27	30	26	22	23	20	18
7	56	43	35	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	39	31	26	47	36	29	24	30	25	21	25	21	18	20	17	14
9	48	36	28	23	44	33	26	22	28	22	19	23	19	16	18	15	13
10	45	33	25	21	41	30	24	19	25	20	17	21	17	14	17	14	12

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.3
10°-20°	260.4	3.7
20°-30°	393.7	5.7
30°-40°	476.3	6.8
40°-50°	503.5	7.2
50°-60°	473.9	6.8
60°-70°	393.2	5.7
70°-80°	276.0	4.0
80°-90°	157.5	2.3
90°-100°	467.9	6.7
100°-110°	831.9	12.0
110°-120°	726.4	10.4
120°-130°	597.5	8.6
130°-140°	488.1	7.0
140°-150°	366.5	5.3
150°-160°	256.0	3.7
160°-170°	150.6	2.2
170°-180°	49.0	0.7
0°-30°	744.9	10.7
0°-40°	1221.2	17.5
0°-60°	2198.6	31.6
0°-90°	3025.3	43.5
90°-120°	2026.3	29.1
90°-150°	3478.4	50.0
90°-180°	3934.0	56.5
0°-180°	6959.3	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°	18	68	124	157	167	14
95°	47	153	902	523	374	47
105°	126	199	722	1500	1503	135
115°	211	273	631	1190	1423	210
125°	289	342	608	1000	1127	258
135°	341	405	582	870	990	264
145°	391	447	570	717	792	246
155°	444	479	554	627	654	205
165°	483	498	531	562	571	137
175°	504	505	509	516	514	48
180°	505	505	505	505	505	

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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°	18.2	68.0	124.2	157.4	166.9
92.5°	30.0	130.1	489.0	258.6	228.9
95°	46.8	152.6	902.4	522.9	374.3
97.5°	67.5	158.2	953.7	934.0	707.4
100°	87.2	168.8	879.7	1242.2	1028.4
102.5°	107.1	182.3	790.0	1432.4	1309.0
105°	125.8	199.4	722.1	1499.9	1503.0
107.5°	148.7	218.0	676.0	1472.2	1591.9
110°	170.4	235.5	652.8	1386.3	1588.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	191.1	254.2	638.5	1282.6	1523.5
115°	210.9	272.7	631.2	1189.8	1422.7
117.5°	232.7	290.8	624.8	1115.0	1325.1
120°	253.6	307.4	619.4	1062.4	1243.1
122.5°	273.4	324.5	613.1	1026.6	1177.2
125°	289.2	341.7	607.8	1000.0	1127.0
127.5°	305.1	359.6	600.5	973.2	1093.9
130°	316.9	375.8	594.1	943.5	1063.6
132.5°	329.8	390.7	588.8	909.3	1031.4
135°	340.6	405.1	582.5	869.7	990.2
137.5°	352.5	416.5	578.2	828.6	943.1
140°	365.4	428.0	573.9	788.4	893.1
142.5°	378.3	438.4	571.8	751.8	840.0
145°	391.2	446.7	569.8	717.2	791.9
147.5°	406.1	455.6	566.8	687.5	746.9
150°	420.0	464.0	563.8	664.1	708.8
152.5°	431.8	472.0	558.9	645.2	679.0
155°	443.7	479.0	553.9	627.3	654.2
157.5°	455.6	485.4	548.9	610.5	631.3
160°	466.6	490.8	543.0	593.6	610.5
162.5°	476.5	495.4	537.0	577.2	590.6
165°	483.4	498.3	531.1	562.3	570.8
167.5°	491.4	500.8	525.1	549.4	554.9
170°	496.3	502.8	519.2	536.6	540.0
172.5°	501.3	504.3	513.2	525.1	525.1
175°	504.3	505.3	509.2	516.2	514.2
177.5°	506.3	505.3	506.3	509.7	506.3
180°	505.3	505.3	505.3	505.3	505.3

(END OF REPORT)