

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: P1025718

Luminaire Tested: S124DIP-B795D1035UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025718
REPORT IS A COMBINATION OF REPORTS P996348 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D1035UB30-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

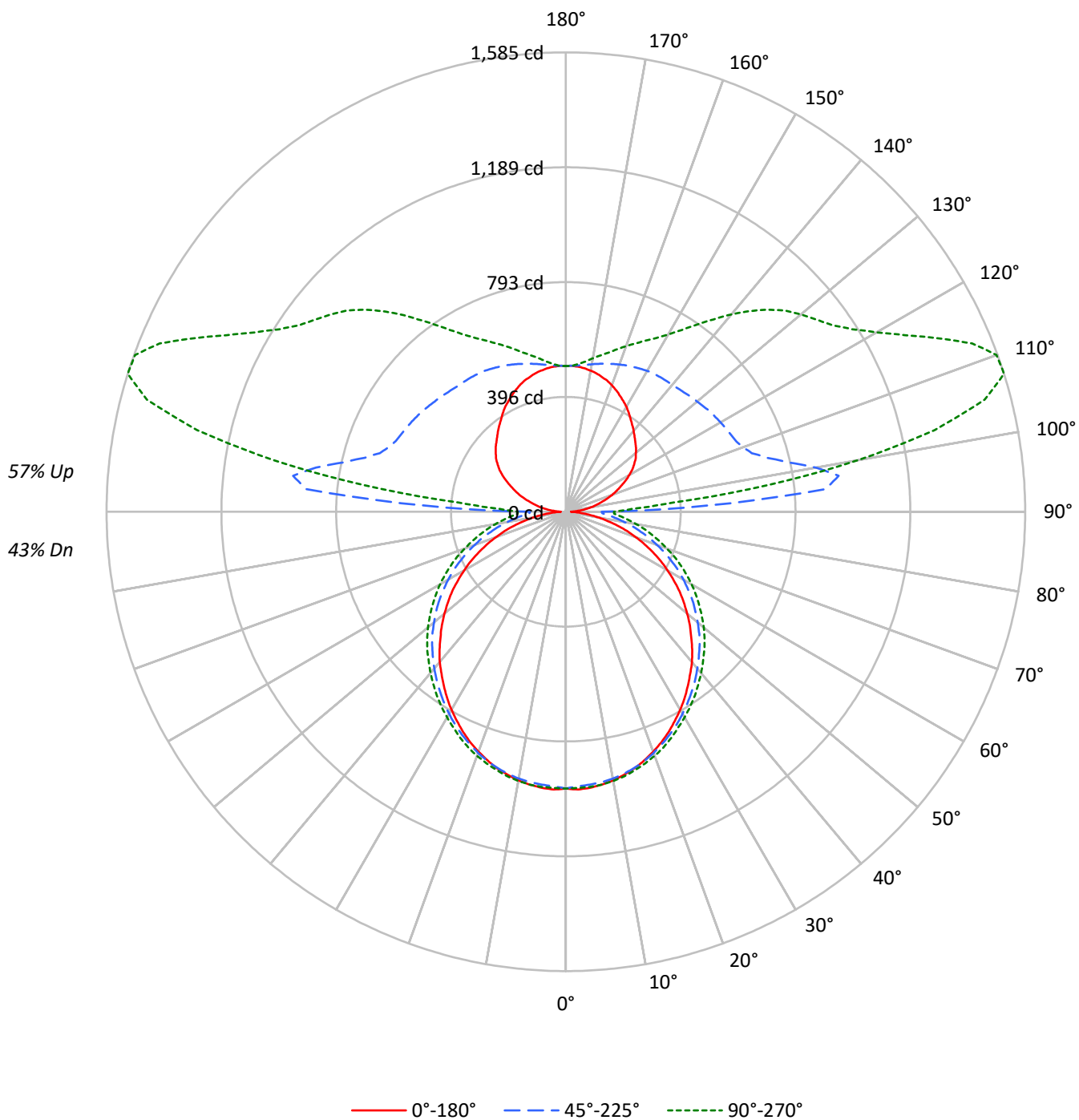
Lumens per Lamp: N/A
Luminaire Lumens: 6929.3 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1025718

CATALOG NUMBER: S124DIP-B795D1035UB30-4F0-XX-W2A-D4

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					0
RW	70	50	30	10	70	50	30	10	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	43		
1	95	91	87	83	87	83	79	76	69	66	64	55	53	52	43	42	41	35		
2	87	79	72	67	79	72	66	62	59	55	52	48	45	42	37	35	33	28		
3	79	69	61	55	71	63	56	51	52	47	43	42	38	35	33	30	28	24		
4	72	61	53	46	65	56	49	43	46	41	36	37	33	30	29	26	24	20		
5	66	54	46	39	60	49	42	37	41	35	31	33	29	26	26	23	21	17		
6	60	48	40	34	55	44	37	32	37	31	27	30	26	22	23	20	18	15		
7	56	43	35	30	51	40	33	28	33	28	24	27	23	20	21	18	16	13		
8	52	39	31	26	47	36	29	24	30	25	21	25	21	18	20	17	14	12		
9	48	36	28	23	44	33	26	22	28	22	19	23	19	16	18	15	13	11		
10	45	33	25	21	41	30	24	19	25	20	17	21	17	14	17	14	12	10		

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

TEST NUMBER: P1025718

CATALOG NUMBER: S124DIP-B795D1035UB30-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	1.3
10°-20°	259.3	3.7
20°-30°	392.0	5.7
30°-40°	474.3	6.8
40°-50°	501.4	7.2
50°-60°	471.9	6.8
60°-70°	391.5	5.7
70°-80°	274.8	4.0
80°-90°	156.8	2.3
90°-100°	465.9	6.7
100°-110°	828.3	12.0
110°-120°	723.3	10.4
120°-130°	594.9	8.6
130°-140°	486.0	7.0
140°-150°	364.9	5.3
150°-160°	254.9	3.7
160°-170°	149.9	2.2
170°-180°	48.8	0.7
0°-30°	741.8	10.7
0°-40°	1216.0	17.5
0°-60°	2189.2	31.6
0°-90°	3012.4	43.5
90°-120°	2017.6	29.1
90°-150°	3463.3	50.0
90°-180°	3917.0	56.5
0°-180°	6929.3	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°	18	68	124	157	166	14
95°	46	152	898	521	373	47
105°	125	199	719	1493	1496	134
115°	210	271	628	1185	1417	209
125°	288	340	605	996	1122	257
135°	339	403	580	866	986	262
145°	390	445	567	714	788	245
155°	442	477	552	625	651	204
165°	481	496	529	560	568	136
175°	502	503	507	514	512	48
180°	503	503	503	503	503	

TEST NUMBER: P1025718

CATALOG NUMBER: S124DIP-B795D1035UB30-4F0-XX-W2A-D4

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°	18.1	67.8	123.7	156.7	166.2
92.5°	29.8	129.6	486.9	257.4	227.9
95°	46.5	152.0	898.5	520.7	372.7
97.5°	67.2	157.5	949.5	930.0	704.3
100°	86.9	168.1	875.9	1237.0	1023.9
102.5°	106.7	181.6	786.5	1426.1	1303.3
105°	125.2	198.6	719.0	1493.4	1496.5
107.5°	148.0	217.0	673.0	1465.8	1585.0
110°	169.7	234.6	650.1	1380.4	1581.6

TEST NUMBER: P1025718

CATALOG NUMBER: S124DIP-B795D1035UB30-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	190.3	253.0	635.8	1277.0	1516.9
115°	210.0	271.4	628.5	1184.8	1416.6
117.5°	231.7	289.6	622.1	1110.1	1319.3
120°	252.4	306.1	616.8	1057.8	1237.7
122.5°	272.2	323.0	610.4	1022.2	1172.0
125°	288.0	340.2	605.1	995.6	1122.2
127.5°	303.8	358.0	597.8	968.9	1089.1
130°	315.5	374.2	591.5	939.4	1059.0
132.5°	328.4	389.1	586.3	905.4	1027.0
135°	339.1	403.4	579.9	865.8	986.0
137.5°	351.0	414.8	575.6	825.0	939.0
140°	363.8	426.1	571.4	785.0	889.2
142.5°	376.7	436.4	569.3	748.6	836.3
145°	389.5	444.8	567.3	714.0	788.5
147.5°	404.4	453.6	564.4	684.6	743.6
150°	418.2	462.0	561.4	661.2	705.7
152.5°	429.9	470.0	556.4	642.4	676.0
155°	441.8	476.9	551.5	624.7	651.3
157.5°	453.7	483.3	546.6	607.8	628.6
160°	464.5	488.8	540.6	591.0	607.8
162.5°	474.4	493.2	534.7	574.8	588.1
165°	481.3	496.2	528.8	559.9	568.3
167.5°	489.2	498.6	522.8	547.0	552.5
170°	494.2	500.6	516.9	534.2	537.7
172.5°	499.1	502.1	511.0	522.8	522.8
175°	502.1	503.1	507.0	513.9	512.0
177.5°	504.1	503.1	504.1	507.5	504.1
180°	503.1	503.1	503.1	503.1	503.1

(END OF REPORT)