

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: P1025717

Luminaire Tested: S124DIP-B795D1035UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025717
REPORT IS A COMBINATION OF REPORTS P996347 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-D1
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

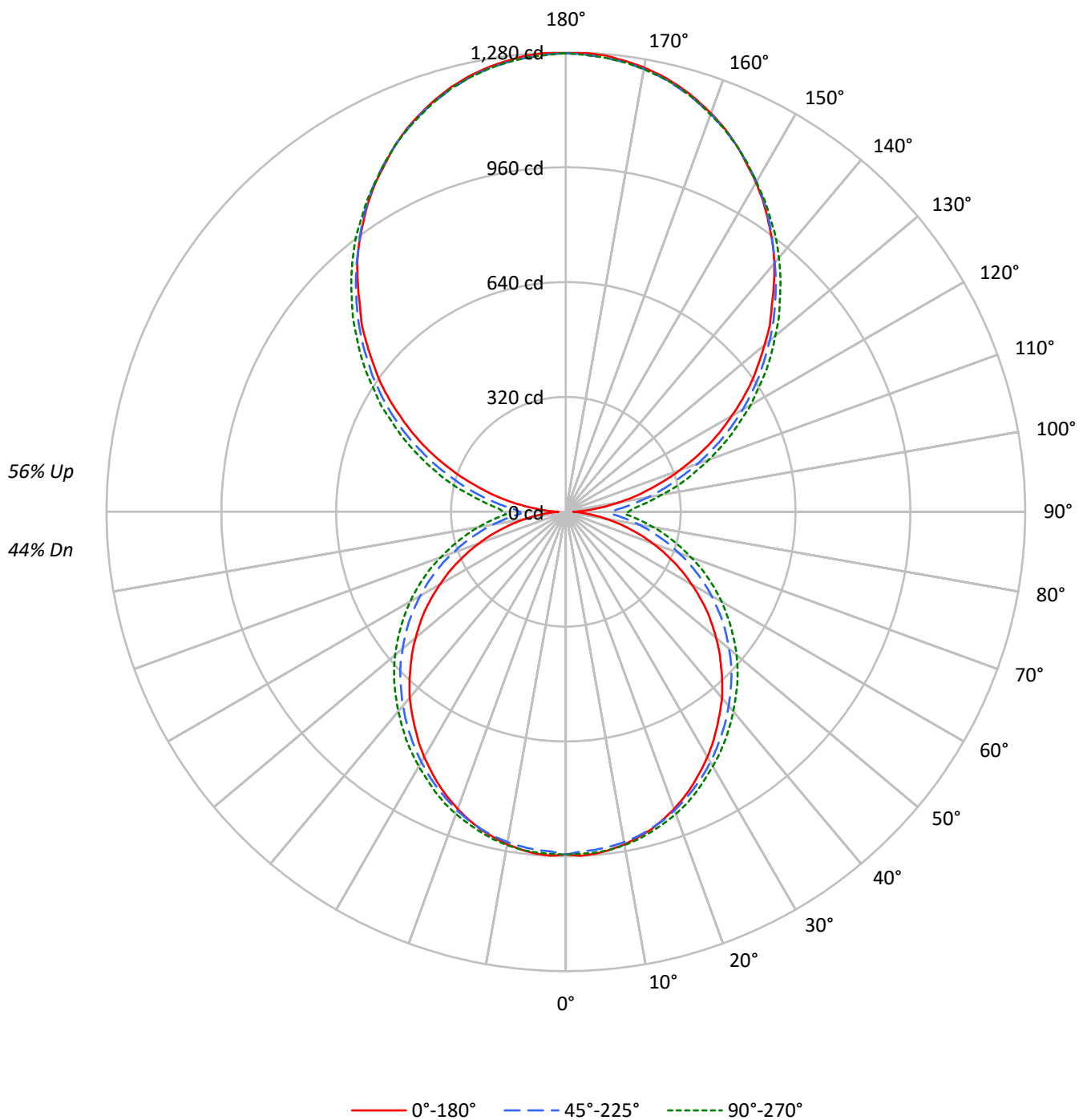
Lumens per Lamp: N/A
Luminaire Lumens: 6804.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	30	10
RCR																	
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	91	87	83	87	83	80	76	69	66	64	56	54	52	44	42	41
2	87	79	72	67	79	72	67	62	60	56	52	48	45	43	38	36	34
3	79	69	61	55	72	63	57	51	52	47	43	42	39	36	33	31	28
4	72	61	53	46	65	56	49	43	46	41	37	38	34	30	29	27	24
5	66	54	46	40	60	50	42	37	41	36	31	34	29	26	26	23	21
6	61	48	40	34	55	44	37	32	37	31	27	30	26	23	24	21	18
7	56	43	35	30	51	40	33	28	34	28	24	27	23	20	22	19	16
8	52	39	32	26	47	36	29	24	30	25	21	25	21	18	20	17	14
9	48	36	28	23	44	33	26	22	28	23	19	23	19	16	18	15	13
10	45	33	26	21	41	30	24	19	26	20	17	21	17	14	17	14	12

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	1.3
10°-20°	259.3	3.8
20°-30°	392.0	5.8
30°-40°	474.3	7.0
40°-50°	501.4	7.4
50°-60°	471.9	6.9
60°-70°	391.5	5.8
70°-80°	274.8	4.0
80°-90°	157.6	2.3
90°-100°	175.5	2.6
100°-110°	317.8	4.7
110°-120°	469.6	6.9
120°-130°	584.7	8.6
130°-140°	638.9	9.4
140°-150°	619.2	9.1
150°-160°	518.9	7.6
160°-170°	345.3	5.1
170°-180°	120.9	1.8
0°-30°	741.8	10.9
0°-40°	1216.0	17.9
0°-60°	2189.2	32.2
0°-90°	3013.2	44.3
90°-120°	962.9	14.2
90°-150°	2805.7	41.2
90°-180°	3791.0	55.7
0°-180°	6804.0	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°	20	74	128	165	175	16
95°	73	117	168	200	210	75
105°	240	262	306	336	347	255
115°	437	447	479	502	508	432
125°	632	631	656	675	679	563
135°	811	817	825	840	844	628
145°	984	987	988	994	995	616
155°	1126	1126	1126	1130	1126	519
165°	1226	1223	1221	1227	1223	346
175°	1276	1271	1270	1277	1270	121
180°	1278	1278	1278	1278	1278	

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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°	20.1	73.7	127.6	164.6	175.0
92.5°	41.7	92.0	143.0	175.8	185.4
95°	73.2	117.4	168.1	200.0	209.6
97.5°	107.7	146.6	198.4	230.1	239.7
100°	150.1	181.9	232.5	263.4	270.8
102.5°	195.6	220.1	268.6	299.4	309.0
105°	239.9	262.2	305.8	335.5	347.0
107.5°	288.3	307.5	345.8	376.6	383.1
110°	336.7	353.6	390.1	412.7	424.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	387.0	399.8	433.1	456.6	465.2
115°	437.3	446.9	479.2	501.7	508.2
117.5°	485.7	492.1	523.2	542.7	548.3
120°	533.0	540.3	568.3	584.7	595.2
122.5°	583.4	584.4	612.3	630.7	633.3
125°	631.8	630.7	656.4	674.8	679.3
127.5°	676.3	678.1	697.6	714.8	721.3
130°	722.6	724.5	741.6	758.9	761.3
132.5°	771.0	771.9	783.8	800.0	805.5
135°	811.4	817.4	824.9	840.0	843.5
137.5°	857.9	859.8	866.0	879.2	885.4
140°	904.3	905.3	906.3	919.2	923.6
142.5°	945.8	947.8	945.7	957.5	961.7
145°	984.4	987.2	988.2	993.6	994.9
147.5°	1023.9	1027.7	1026.7	1026.9	1030.1
150°	1059.5	1062.3	1062.3	1062.3	1061.3
152.5°	1092.0	1093.9	1094.9	1097.9	1094.9
155°	1126.5	1126.5	1125.6	1129.5	1125.6
157.5°	1156.2	1154.2	1154.2	1157.2	1154.2
160°	1181.9	1180.9	1179.9	1182.9	1177.9
162.5°	1205.6	1202.6	1201.7	1207.6	1202.6
165°	1226.4	1223.4	1221.4	1227.3	1223.4
167.5°	1243.2	1239.2	1239.2	1245.1	1239.2
170°	1257.0	1252.1	1253.0	1259.0	1252.1
172.5°	1266.9	1262.9	1262.9	1269.8	1262.9
175°	1275.8	1270.8	1269.8	1276.8	1269.8
177.5°	1279.7	1274.8	1274.8	1281.7	1273.8
180°	1277.7	1277.7	1277.7	1277.7	1277.7

(END OF REPORT)