

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: P1025763

Luminaire Tested: S124DIP-B795D1205UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025763
REPORT IS A COMBINATION OF REPORTS P996408 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B795D1205UB30-4F0-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

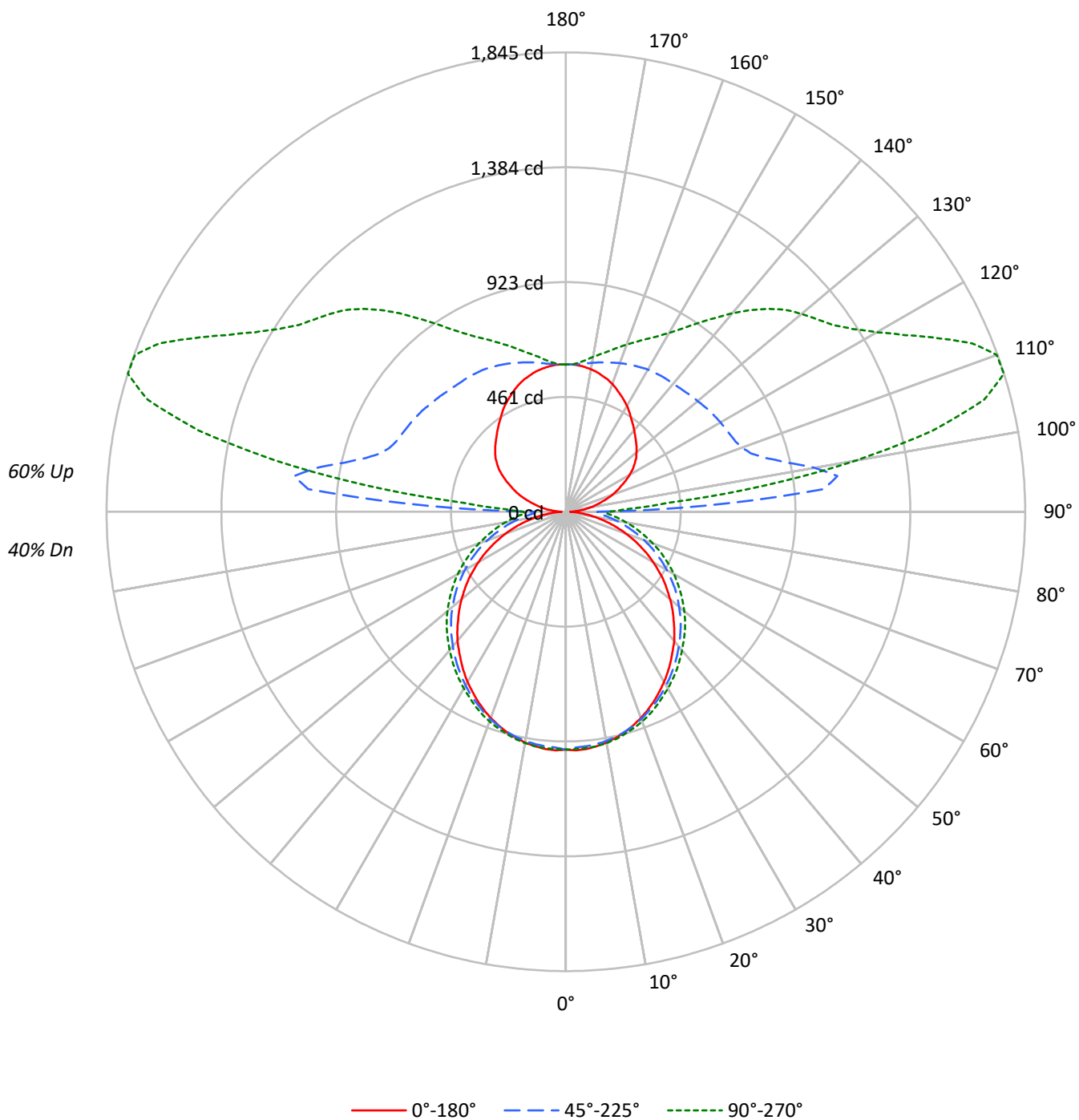
Lumens per Lamp: N/A
Luminaire Lumens: 7571.6 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 70.9
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40	40	40
1	95	90	86	82	86	82	78	75	67	64	62	53	51	50	40	39	38	32	32	32
2	86	78	72	66	78	71	66	61	58	54	51	46	43	41	35	33	31	26	26	26
3	78	68	61	55	71	62	56	51	51	46	42	40	37	34	30	28	26	22	22	22
4	71	60	52	46	64	55	48	43	45	40	36	36	32	29	27	24	22	18	18	18
5	65	53	45	39	59	49	42	36	40	35	30	32	28	25	24	21	19	16	16	16
6	60	48	40	34	54	44	37	31	36	30	26	29	25	22	22	19	17	14	14	14
7	55	43	35	29	50	39	32	27	32	27	23	26	22	19	20	17	15	12	12	12
8	51	39	31	26	46	36	29	24	30	24	20	24	20	17	18	15	13	11	11	11
9	48	35	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12	10	10	10
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11	9	9	9

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	1.2
10°-20°	259.3	3.4
20°-30°	392.0	5.2
30°-40°	474.3	6.3
40°-50°	501.4	6.6
50°-60°	471.9	6.2
60°-70°	391.5	5.2
70°-80°	274.8	3.6
80°-90°	157.2	2.1
90°-100°	531.3	7.0
100°-110°	961.2	12.7
110°-120°	841.7	11.1
120°-130°	694.4	9.2
130°-140°	569.1	7.5
140°-150°	428.3	5.7
150°-160°	299.5	4.0
160°-170°	176.2	2.3
170°-180°	57.3	0.8
0°-30°	741.8	9.8
0°-40°	1216.0	16.1
0°-60°	2189.2	28.9
0°-90°	3012.7	39.8
90°-120°	2334.3	30.8
90°-150°	4025.9	53.2
90°-180°	4559.0	60.2
0°-180°	7571.6	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	69	127	160	170	14
95°	52	170	1039	590	415	53
105°	146	228	832	1738	1740	156
115°	246	316	730	1379	1650	244
125°	338	399	706	1161	1308	301
135°	398	474	680	1013	1153	308
145°	457	523	666	838	924	287
155°	519	560	648	734	765	239
165°	566	583	621	658	668	160
175°	590	591	596	604	602	56
180°	591	591	591	591	591	

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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°	18.3	69.2	126.8	160.1	169.8
92.5°	32.3	142.9	554.7	279.8	243.7
95°	52.2	170.0	1039.4	590.4	414.8
97.5°	76.7	177.3	1100.2	1072.3	805.5
100°	100.0	190.5	1014.9	1434.0	1182.4
102.5°	123.3	207.2	910.8	1657.4	1511.5
105°	145.5	227.8	832.3	1737.5	1739.7
107.5°	172.2	250.2	779.3	1706.0	1844.7
110°	197.9	271.4	753.1	1606.8	1841.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	222.3	293.8	737.2	1486.4	1766.8
115°	245.6	316.2	729.6	1379.0	1650.0
117.5°	271.1	338.0	723.0	1292.4	1536.7
120°	295.6	358.2	717.7	1232.0	1442.0
122.5°	318.8	378.6	711.2	1191.2	1365.9
125°	337.6	399.2	705.7	1161.0	1308.4
127.5°	356.1	420.0	698.1	1130.6	1270.5
130°	370.1	439.2	691.5	1096.9	1236.3
132.5°	385.2	456.7	686.2	1058.0	1199.6
135°	398.1	473.5	679.6	1012.6	1152.6
137.5°	412.0	487.0	675.3	965.4	1098.5
140°	427.1	500.4	670.9	919.4	1040.9
142.5°	442.3	512.6	668.8	877.4	979.8
145°	457.4	522.6	666.5	837.8	924.5
147.5°	474.9	533.0	663.0	804.1	872.7
150°	491.1	542.8	659.5	776.8	829.1
152.5°	505.1	552.2	653.7	754.8	794.2
155°	519.0	560.3	647.9	733.8	765.2
157.5°	533.0	567.8	642.1	714.1	738.5
160°	545.8	574.2	635.2	694.4	714.1
162.5°	557.4	579.4	628.2	675.2	690.9
165°	565.5	582.9	621.2	657.8	667.7
167.5°	574.8	585.8	614.3	642.8	649.1
170°	580.6	588.2	607.3	627.6	631.7
172.5°	586.4	589.8	600.3	614.2	614.3
175°	589.9	591.0	595.7	603.8	601.5
177.5°	592.2	591.0	592.2	596.2	592.2
180°	591.0	591.0	591.0	591.0	591.0

(END OF REPORT)