

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: P1024911

Luminaire Tested: S124DIP-B1020D365UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1024911
REPORT IS A COMBINATION OF REPORTS P995271 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1020D365UB30-4F0-XX-W2A-F4
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

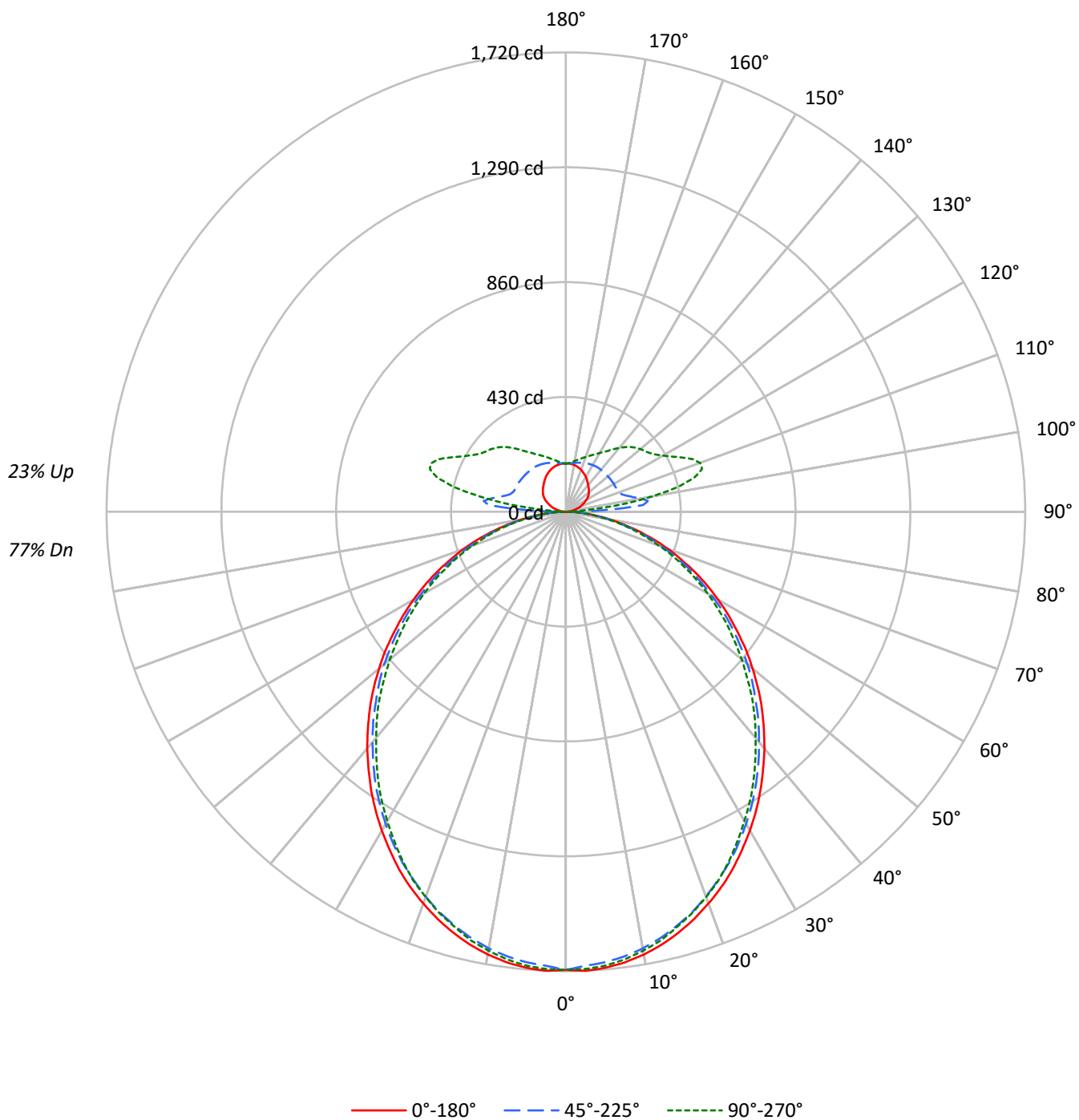
Lumens per Lamp: N/A
Luminaire Lumens: 5723.6 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81
1	104	99	95	91	99	95	91	88	86	83	81	79	76	74	71	70	68
2	95	87	80	75	90	83	77	72	76	71	67	69	65	62	63	60	57
3	86	76	69	62	82	73	66	60	67	61	56	61	56	53	56	52	49
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	50	46	42
5	73	60	52	46	69	58	50	44	53	47	42	49	44	39	45	40	37
6	67	54	46	40	64	52	44	39	48	42	37	44	39	35	41	36	32
7	62	49	41	35	59	47	40	34	44	37	32	40	35	31	37	33	29
8	58	45	37	31	55	43	36	30	40	34	29	37	32	27	34	30	26
9	54	41	33	28	51	40	32	27	37	31	26	34	29	25	32	27	23
10	51	38	30	25	48	37	30	25	34	28	24	32	26	22	29	25	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13985	13985	13985
5°	13997	13583	13599
10°	13878	13206	13113
15°	13679	12758	12565
20°	13425	12272	11997
25°	13139	11760	11386
30°	12794	11206	10715
35°	12437	10639	10067
40°	12064	10029	9377
45°	11673	9416	8733
50°	11241	8824	8018
55°	10771	8130	7309
60°	10291	7371	6570
65°	9739	6587	5738
70°	9105	5643	4845
75°	8158	4550	3881
80°	6951	3290	2729
85°	5399	1832	1469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11673 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	2.8
10°-20°	455.4	8.0
20°-30°	670.3	11.7
30°-40°	779.1	13.6
40°-50°	779.0	13.6
50°-60°	681.4	11.9
60°-70°	505.9	8.8
70°-80°	287.0	5.0
80°-90°	82.9	1.4
90°-100°	134.4	2.3
100°-110°	273.5	4.8
110°-120°	243.7	4.3
120°-130°	204.7	3.6
130°-140°	170.9	3.0
140°-150°	130.5	2.3
150°-160°	91.7	1.6
160°-170°	53.9	0.9
170°-180°	17.5	0.3
0°-30°	1287.3	22.5
0°-40°	2066.5	36.1
0°-60°	3526.9	61.6
0°-90°	4402.7	76.9
90°-120°	651.6	11.4
90°-150°	1157.7	20.2
90°-180°	1321.0	23.1
0°-180°	5723.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1714	1708	1693	1708	1705	163
15°	1631	1626	1605	1613	1609	460
25°	1477	1468	1448	1450	1444	680
35°	1271	1262	1242	1233	1226	795
45°	1038	1028	1006	991	987	800
55°	785	781	761	745	737	703
65°	532	525	511	498	491	526
75°	283	276	269	264	262	300
85°	74	74	72	72	70	80
90°	0	3	6	7	8	6
95°	12	37	290	143	87	13
105°	42	60	233	502	500	44
115°	73	92	208	400	480	73
125°	102	121	207	340	383	91
135°	121	144	205	302	343	94
145°	140	160	204	255	280	88
155°	159	172	198	225	234	73
165°	173	178	190	201	204	49
175°	181	181	182	185	184	17
180°	181	181	181	181	181	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1715.0	1715.0	1715.0	1715.0	1715.0
2.5°	1720.5	1716.4	1701.3	1715.0	1713.7
5°	1713.7	1708.2	1693.1	1708.2	1705.4
7.5°	1701.3	1695.8	1679.3	1691.7	1690.3
10°	1683.4	1677.9	1660.1	1671.1	1668.3
12.5°	1660.1	1654.6	1635.3	1647.7	1643.6
15°	1631.2	1625.7	1605.1	1613.4	1609.2
17.5°	1598.2	1591.4	1572.1	1577.6	1574.9
20°	1561.1	1554.3	1533.6	1537.8	1535.0
22.5°	1521.3	1511.7	1491.0	1499.3	1493.8
25°	1477.3	1467.7	1448.4	1449.8	1444.3
27.5°	1427.8	1418.2	1400.3	1397.6	1390.7
30°	1378.4	1367.4	1349.5	1344.0	1337.1
32.5°	1326.1	1316.5	1297.3	1290.4	1283.5
35°	1271.2	1261.5	1242.3	1232.7	1225.8
37.5°	1213.5	1205.2	1184.6	1175.0	1165.4
40°	1157.1	1146.1	1125.5	1111.8	1104.9
42.5°	1096.6	1091.1	1067.8	1051.3	1047.2
45°	1037.5	1027.9	1005.9	990.8	986.7
47.5°	975.7	968.8	948.2	931.7	920.7
50°	912.5	907.0	887.8	868.5	860.3
52.5°	850.7	843.8	823.2	806.7	795.7
55°	784.7	780.6	761.3	744.8	736.6
57.5°	722.8	718.7	699.5	683.0	674.7
60°	658.3	651.4	633.5	621.2	614.3
62.5°	595.0	589.5	570.3	559.3	552.4
65°	531.8	525.0	511.2	497.5	490.6
67.5°	467.2	461.7	448.0	434.3	432.9
70°	408.1	398.5	387.5	376.5	372.4
72.5°	344.9	335.3	327.1	318.8	314.7
75°	283.1	276.2	269.4	263.9	262.5
77.5°	222.6	219.9	213.0	211.6	207.5
80°	169.0	164.9	162.2	159.4	158.0
82.5°	116.8	115.4	115.4	114.1	112.7
85°	74.2	74.2	71.5	71.5	70.1
87.5°	35.7	34.4	33.0	33.0	33.0
90°	0.4	2.8	6.4	7.1	7.5
92.5°	5.0	27.4	139.4	46.0	32.4
95°	11.7	37.0	289.8	143.4	86.8
97.5°	19.6	40.9	310.1	293.0	208.4
100°	27.0	46.2	285.9	405.4	326.1
102.5°	34.1	52.6	255.7	475.8	428.5
105°	41.6	60.2	233.3	502.3	500.3
107.5°	49.8	68.1	218.7	494.3	534.5
110°	58.0	75.9	211.9	465.8	535.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.8	83.7	208.7	431.0	514.2
115°	73.3	91.9	208.0	399.7	480.4
117.5°	81.1	99.6	207.7	375.2	447.4
120°	88.9	107.0	207.7	358.6	420.3
122.5°	96.0	114.3	207.3	347.8	399.0
125°	102.1	121.2	207.0	340.2	383.3
127.5°	107.7	127.6	206.3	332.8	373.4
130°	112.4	133.8	205.9	324.2	364.9
132.5°	117.0	139.2	205.5	313.8	355.2
135°	121.3	144.4	205.2	301.9	342.8
137.5°	125.5	148.9	205.2	289.1	328.2
140°	130.2	152.9	204.8	276.6	312.2
142.5°	135.1	156.6	204.8	265.1	295.2
145°	139.8	160.0	204.1	254.6	279.9
147.5°	145.1	163.2	203.1	245.9	265.6
150°	150.1	166.2	202.0	237.9	253.9
152.5°	154.7	169.1	200.2	231.2	243.2
155°	159.0	171.6	198.4	224.8	234.3
157.5°	163.2	173.9	196.6	218.7	226.2
160°	167.1	175.9	194.5	212.6	218.7
162.5°	170.7	177.4	192.4	206.8	211.6
165°	173.2	178.5	190.2	201.4	204.5
167.5°	176.0	179.4	188.1	196.9	198.8
170°	177.8	180.1	186.0	192.2	193.4
172.5°	179.6	180.6	183.8	188.2	188.1
175°	180.6	181.0	182.4	184.9	184.2
177.5°	181.4	181.0	181.4	182.6	181.4
180°	181.0	181.0	181.0	181.0	181.0

(END OF REPORT)