

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: P1025153

Luminaire Tested: S124DIP-B1195D365UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025153
REPORT IS A COMBINATION OF REPORTS P995588 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1195D365UB40-4F0-XX-W2A-F1
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

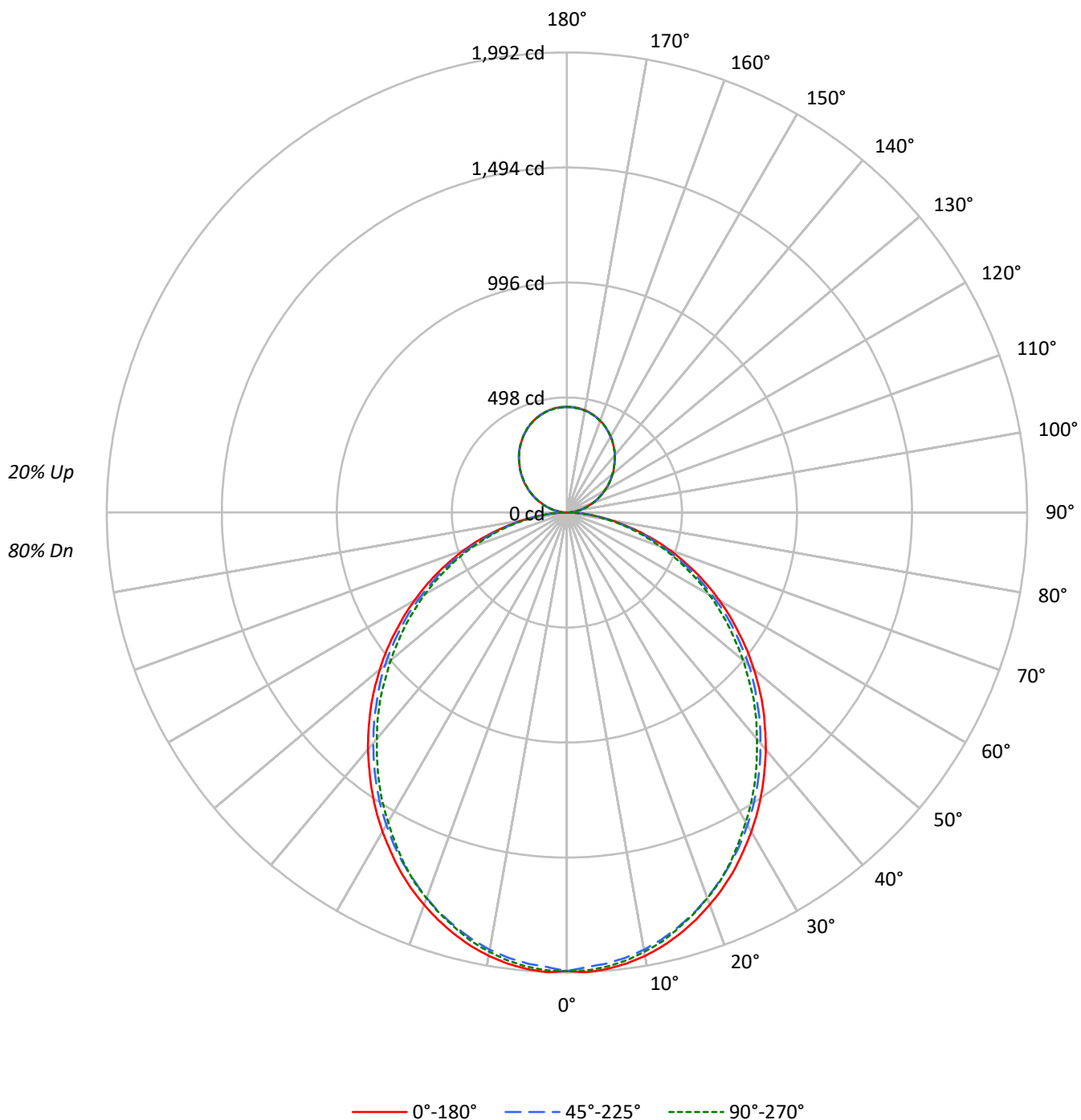
Lumens per Lamp: N/A
Luminaire Lumens: 6366.0 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	114	114	114	114	109	109	109	109	100	100	100	92	92	92	84	84	84	84	84	84	80
1	104	100	96	92	100	96	92	89	88	85	82	81	78	76	74	72	71	71	71	71	67
2	95	87	81	75	91	84	78	73	77	72	68	71	67	64	65	62	60	60	60	60	56
3	87	77	69	63	83	74	67	61	68	62	57	63	58	54	58	54	51	51	51	51	48
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44	44	44	44	41
5	73	61	52	46	70	59	51	45	54	48	43	50	45	40	47	42	38	38	38	38	36
6	68	55	46	40	64	53	45	39	49	42	37	46	40	35	42	37	34	34	34	34	31
7	63	50	41	35	60	48	40	35	45	38	33	42	36	31	39	34	30	30	30	30	28
8	58	45	37	32	56	44	36	31	41	34	30	38	32	28	36	31	27	27	27	27	25
9	54	42	34	28	52	40	33	28	38	31	27	35	30	25	33	28	24	24	24	24	22
10	51	38	31	26	49	37	30	25	35	28	24	33	27	23	31	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16193	16193	16193
5°	16206	15728	15747
10°	16069	15291	15184
15°	15839	14772	14549
20°	15545	14210	13892
25°	15213	13617	13184
30°	14814	12976	12407
35°	14400	12318	11656
40°	13969	11612	10857
45°	13517	10904	10111
50°	13016	10216	9284
55°	12472	9414	8463
60°	11915	8534	7608
65°	11277	7627	6644
70°	10544	6534	5610
75°	9446	5267	4493
80°	8049	3809	3161
85°	6251	2119	1702

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13517 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	2.9
10°-20°	527.3	8.3
20°-30°	776.1	12.2
30°-40°	902.1	14.2
40°-50°	902.1	14.2
50°-60°	789.0	12.4
60°-70°	585.7	9.2
70°-80°	332.3	5.2
80°-90°	96.2	1.5
90°-100°	29.8	0.5
100°-110°	89.2	1.4
110°-120°	151.6	2.4
120°-130°	199.9	3.1
130°-140°	224.5	3.5
140°-150°	220.7	3.5
150°-160°	185.6	2.9
160°-170°	123.5	1.9
170°-180°	43.2	0.7
0°-30°	1490.6	23.4
0°-40°	2392.7	37.6
0°-60°	4083.7	64.1
0°-90°	5098.0	80.1
90°-120°	270.6	4.3
90°-150°	915.7	14.4
90°-180°	1268.0	19.9
0°-180°	6366.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1986	1986	1986	1986	1986	
5°	1984	1978	1960	1978	1975	188
15°	1889	1882	1858	1868	1863	532
25°	1710	1699	1677	1679	1672	787
35°	1472	1461	1438	1427	1419	920
45°	1201	1190	1165	1147	1142	926
55°	909	904	882	862	853	814
65°	616	608	592	576	568	609
75°	328	320	312	306	304	348
85°	86	86	83	83	81	92
90°	1	5	8	10	11	7
95°	21	24	27	28	28	23
105°	82	83	84	85	86	87
115°	154	154	153	153	153	152
125°	224	224	224	223	223	200
135°	290	292	292	291	290	224
145°	352	353	353	353	352	220
155°	403	403	403	404	403	185
165°	439	438	437	439	438	124
175°	456	454	454	457	454	43
180°	457	457	457	457	457	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1985.8	1985.8	1985.8	1985.8	1985.8
2.5°	1992.2	1987.4	1969.9	1985.8	1984.2
5°	1984.2	1977.9	1960.4	1977.9	1974.7
7.5°	1969.9	1963.5	1944.5	1958.8	1957.2
10°	1949.2	1942.9	1922.2	1934.9	1931.7
12.5°	1922.2	1915.8	1893.5	1907.9	1903.1
15°	1888.8	1882.4	1858.5	1868.1	1863.3
17.5°	1850.6	1842.6	1820.3	1826.7	1823.5
20°	1807.6	1799.7	1775.8	1780.6	1777.4
22.5°	1761.5	1750.3	1726.5	1736.0	1729.6
25°	1710.5	1699.4	1677.1	1678.7	1672.4
27.5°	1653.3	1642.1	1621.4	1618.3	1610.3
30°	1596.0	1583.2	1562.6	1556.2	1548.2
32.5°	1535.5	1524.4	1502.1	1494.1	1486.2
35°	1471.9	1460.7	1438.4	1427.3	1419.4
37.5°	1405.0	1395.5	1371.6	1360.5	1349.3
40°	1339.8	1327.1	1303.2	1287.3	1279.3
42.5°	1269.8	1263.4	1236.4	1217.3	1212.5
45°	1201.4	1190.2	1164.8	1147.3	1142.5
47.5°	1129.8	1121.8	1097.9	1078.8	1066.1
50°	1056.6	1050.2	1027.9	1005.6	996.1
52.5°	985.0	977.0	953.1	934.0	921.3
55°	908.6	903.8	881.5	862.4	852.9
57.5°	837.0	832.2	809.9	790.8	781.3
60°	762.2	754.2	733.5	719.2	711.3
62.5°	689.0	682.6	660.3	647.6	639.7
65°	615.8	607.8	591.9	576.0	568.1
67.5°	541.0	534.6	518.7	502.8	501.2
70°	472.6	461.4	448.7	436.0	431.2
72.5°	399.4	388.3	378.7	369.2	364.4
75°	327.8	319.8	311.9	305.5	303.9
77.5°	257.8	254.6	246.6	245.0	240.3
80°	195.7	190.9	187.8	184.6	183.0
82.5°	135.3	133.7	133.7	132.1	130.5
85°	85.9	85.9	82.7	82.7	81.2
87.5°	41.4	39.8	38.2	38.2	38.2
90°	1.1	4.9	7.8	9.9	10.6
92.5°	9.2	13.8	15.6	16.6	17.0
95°	21.2	24.4	26.9	27.9	27.9
97.5°	33.9	36.8	39.6	41.0	41.0
100°	49.5	50.9	54.1	54.8	54.8
102.5°	65.7	66.1	68.9	70.0	70.3
105°	82.4	82.7	84.1	85.2	86.2
107.5°	99.7	100.0	100.4	101.8	101.4
110°	117.3	118.1	117.7	117.0	118.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.7	135.7	135.0	135.0	135.0
115°	154.1	154.1	153.4	153.0	152.7
117.5°	171.4	171.4	171.1	170.0	168.9
120°	188.7	190.2	189.1	187.3	188.0
122.5°	206.8	207.1	206.8	205.7	203.9
125°	224.4	224.4	224.1	223.4	222.7
127.5°	240.3	241.4	240.7	240.0	239.6
130°	257.3	258.4	258.4	257.7	256.2
132.5°	274.6	275.3	275.0	274.3	273.9
135°	289.5	291.6	291.6	290.9	289.8
137.5°	306.1	307.1	307.9	306.8	307.1
140°	322.7	323.4	323.4	323.0	322.7
142.5°	337.9	338.6	338.2	338.2	338.2
145°	351.7	353.1	353.4	353.1	352.0
147.5°	365.8	367.6	367.2	366.9	366.5
150°	378.5	380.0	380.0	380.0	379.6
152.5°	390.6	391.3	391.6	392.7	391.6
155°	402.9	402.9	402.6	404.0	402.6
157.5°	413.5	412.8	412.8	413.9	412.8
160°	422.7	422.4	422.0	423.1	421.3
162.5°	431.2	430.1	429.8	431.9	430.1
165°	438.6	437.6	436.9	439.0	437.6
167.5°	444.6	443.2	443.2	445.3	443.2
170°	449.6	447.8	448.2	450.3	447.8
172.5°	453.1	451.7	451.7	454.2	451.7
175°	456.3	454.5	454.2	456.7	454.2
177.5°	457.7	455.9	455.9	458.4	455.6
180°	457.0	457.0	457.0	457.0	457.0

(END OF REPORT)