

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: P1033363

Luminaire Tested: S124DIW-B1195D770UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033363
REPORT IS A COMBINATION OF REPORTS P997249 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B1195D770UB30-4F0-XX-W2A-F
Description: Define 4 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

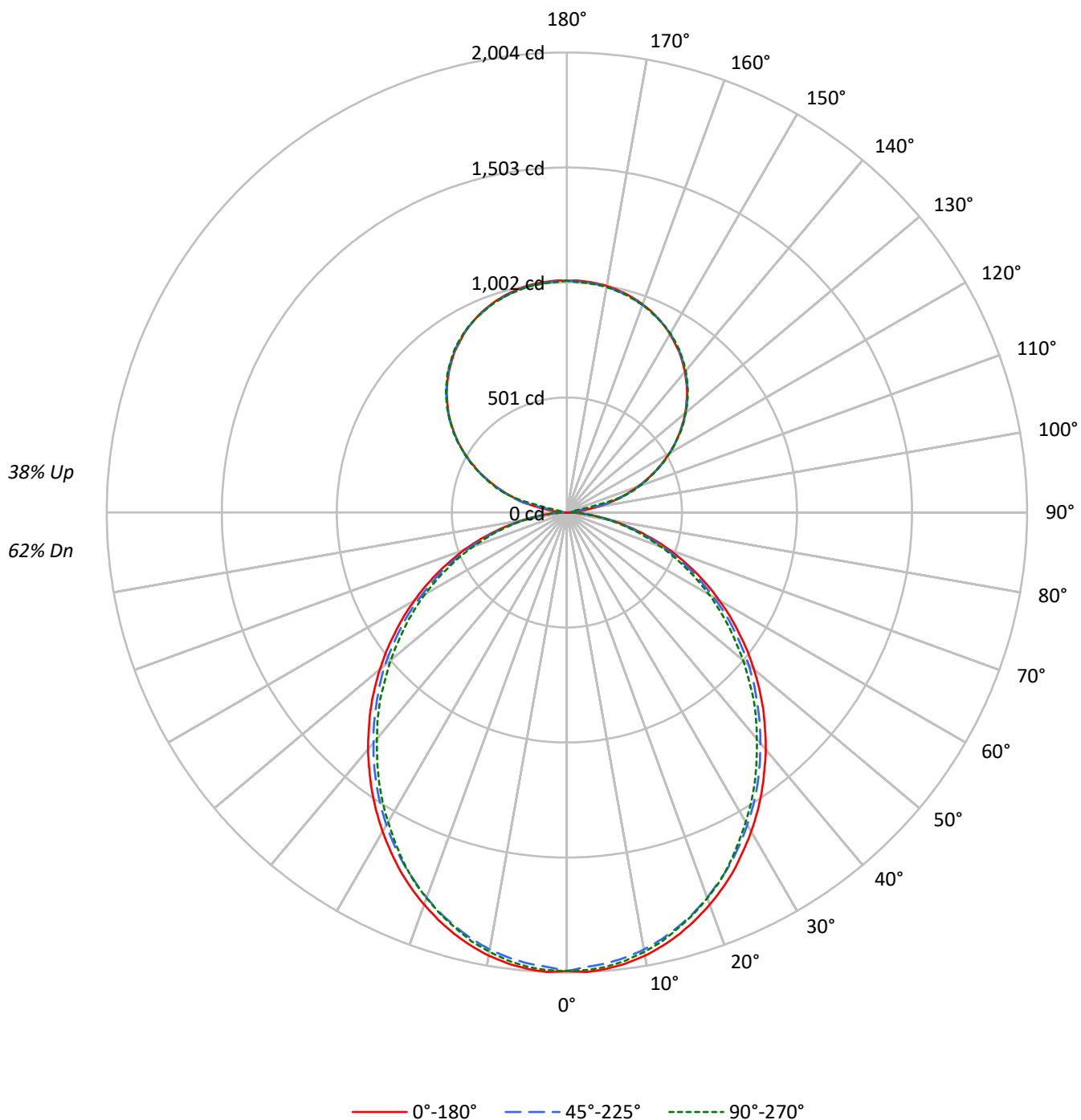
Lumens per Lamp: N/A
Luminaire Lumens: 8252.0 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 84.5
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67
1	100	96	92	88	94	90	87	83	79	76	74	69	67	65	59	58	57
2	91	84	78	72	85	79	73	69	69	65	61	60	57	54	52	50	48
3	83	74	66	60	78	69	63	57	61	56	52	53	49	46	46	43	41
4	76	65	57	51	71	62	54	49	54	49	44	48	43	39	41	38	35
5	70	58	50	44	65	55	47	42	49	43	38	43	38	34	37	34	31
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27
7	60	47	39	34	56	45	37	32	40	34	29	35	30	27	31	27	24
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	22
9	52	39	32	27	49	37	30	26	33	28	23	30	25	21	26	22	19
10	49	36	29	24	45	34	28	23	31	25	21	28	23	19	24	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16285	16285	16285
5°	16299	15817	15836
10°	16161	15378	15270
15°	15929	14856	14632
20°	15633	14291	13971
25°	15300	13695	13259
30°	14899	13050	12478
35°	14482	12389	11722
40°	14048	11678	10919
45°	13593	10965	10169
50°	13090	10275	9337
55°	12542	9467	8511
60°	11982	8583	7650
65°	11341	7671	6681
70°	10604	6572	5643
75°	9501	5298	4518
80°	8094	3829	3178
85°	6287	2132	1710

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13593 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	2.3
10°-20°	530.3	6.4
20°-30°	780.5	9.5
30°-40°	907.3	11.0
40°-50°	907.2	11.0
50°-60°	793.4	9.6
60°-70°	589.1	7.1
70°-80°	334.2	4.1
80°-90°	97.8	1.2
90°-100°	33.5	0.4
100°-110°	220.7	2.7
110°-120°	421.4	5.1
120°-130°	535.0	6.5
130°-140°	572.3	6.9
140°-150°	535.2	6.5
150°-160°	431.6	5.2
160°-170°	278.3	3.4
170°-180°	95.9	1.2
0°-30°	1499.1	18.2
0°-40°	2406.3	29.2
0°-60°	4107.0	49.8
0°-90°	5128.1	62.1
90°-120°	675.6	8.2
90°-150°	2318.1	28.1
90°-180°	3124.0	37.9
0°-180°	8252.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1997	1997	1997	1997	1997	
5°	1996	1989	1972	1989	1986	189
15°	1900	1893	1869	1879	1874	535
25°	1720	1709	1687	1688	1682	792
35°	1480	1469	1447	1435	1427	926
45°	1208	1197	1171	1154	1149	931
55°	914	909	886	867	858	818
65°	619	611	595	579	571	613
75°	330	322	314	307	306	350
85°	86	86	83	83	82	93
90°	2	11	17	21	23	8
95°	42	16	17	21	22	51
105°	227	232	236	242	215	238
115°	424	427	426	427	427	418
125°	596	600	598	600	601	533
135°	740	739	742	744	745	570
145°	853	856	856	856	858	533
155°	936	936	934	937	935	431
165°	987	983	983	989	982	279
175°	1010	1005	1006	1013	1004	96
180°	1010	1010	1010	1010	1010	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1997.1	1997.1	1997.1	1997.1	1997.1
2.5°	2003.5	1998.7	1981.1	1997.1	1995.5
5°	1995.5	1989.1	1971.5	1989.1	1985.9
7.5°	1981.1	1974.7	1955.5	1969.9	1968.3
10°	1960.3	1953.9	1933.1	1945.9	1942.7
12.5°	1933.1	1926.7	1904.3	1918.7	1913.9
15°	1899.5	1893.1	1869.1	1878.7	1873.9
17.5°	1861.1	1853.1	1830.7	1837.1	1833.9
20°	1817.9	1809.9	1785.9	1790.7	1787.5
22.5°	1771.5	1760.3	1736.3	1745.9	1739.5
25°	1720.3	1709.1	1686.7	1688.3	1681.9
27.5°	1662.7	1651.5	1630.7	1627.5	1619.5
30°	1605.1	1592.3	1571.5	1565.1	1557.1
32.5°	1544.2	1533.0	1510.6	1502.6	1494.6
35°	1480.2	1469.0	1446.6	1435.4	1427.4
37.5°	1413.0	1403.4	1379.4	1368.2	1357.0
40°	1347.4	1334.6	1310.6	1294.6	1286.6
42.5°	1277.0	1270.6	1243.4	1224.2	1219.4
45°	1208.2	1197.0	1171.4	1153.8	1149.0
47.5°	1136.2	1128.2	1104.2	1085.0	1072.2
50°	1062.6	1056.2	1033.8	1011.4	1001.8
52.5°	990.6	982.6	958.6	939.4	926.5
55°	913.7	908.9	886.5	867.3	857.7
57.5°	841.7	836.9	814.5	795.3	785.7
60°	766.5	758.5	737.7	723.3	715.3
62.5°	692.9	686.5	664.1	651.3	643.3
65°	619.3	611.3	595.3	579.3	571.3
67.5°	544.1	537.7	521.7	505.7	504.1
70°	475.3	464.1	451.3	438.5	433.7
72.5°	401.7	390.5	380.9	371.3	366.5
75°	329.7	321.7	313.7	307.2	305.6
77.5°	259.2	256.0	248.0	246.4	241.6
80°	196.8	192.0	188.8	185.6	184.0
82.5°	136.0	134.4	134.4	132.8	131.2
85°	86.4	86.4	83.2	83.2	81.6
87.5°	41.6	40.0	38.4	38.4	38.4
90°	2.3	10.6	16.6	21.1	22.7
92.5°	11.3	9.8	15.9	20.4	20.4
95°	41.5	15.9	16.6	21.1	21.9
97.5°	79.3	95.9	16.6	20.4	21.1
100°	123.8	137.4	33.2	20.4	21.1
102.5°	173.7	182.7	191.8	21.9	21.9
105°	227.3	231.8	235.6	242.4	215.2
107.5°	276.4	278.6	283.9	287.7	290.7
110°	326.2	328.5	333.0	334.5	336.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	374.5	379.1	380.6	379.8	382.8
115°	424.4	426.6	425.9	427.4	427.4
117.5°	468.9	471.9	474.2	473.4	473.4
120°	514.2	517.2	516.5	518.0	516.5
122.5°	556.5	558.0	559.5	560.3	558.8
125°	596.5	599.5	598.0	600.3	601.1
127.5°	635.0	635.8	639.6	638.8	638.1
130°	672.0	672.8	675.0	675.8	675.8
132.5°	706.0	707.5	710.5	711.3	710.5
135°	740.0	739.2	742.3	743.8	745.3
137.5°	770.2	770.2	774.0	775.5	774.7
140°	799.6	801.1	802.7	804.9	805.7
142.5°	826.1	829.1	829.8	831.4	831.4
145°	853.3	855.5	855.5	856.3	857.8
147.5°	874.4	878.9	878.2	878.9	879.7
150°	897.8	900.8	900.1	900.1	900.8
152.5°	917.4	919.7	918.2	919.7	918.9
155°	935.6	936.3	934.0	937.1	934.8
157.5°	951.4	951.4	948.4	952.2	948.4
160°	965.0	962.7	962.0	966.5	962.0
162.5°	977.1	974.1	973.3	977.8	972.6
165°	986.9	983.1	983.1	989.2	982.4
167.5°	995.2	991.4	990.7	997.5	989.9
170°	1002.0	997.5	998.2	1004.3	996.7
172.5°	1006.5	1002.0	1002.8	1008.8	1000.5
175°	1009.6	1005.0	1005.8	1012.6	1003.5
177.5°	1011.8	1006.5	1008.0	1014.1	1005.0
180°	1009.6	1009.6	1009.6	1009.6	1009.6

(END OF REPORT)