

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: P1033247

Luminaire Tested: S124DIW-B1195D1050UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033247
REPORT IS A COMBINATION OF REPORTS P996986 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B1195D1050UB30-4F0-XX-W2A-F1
Description: Define 4 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

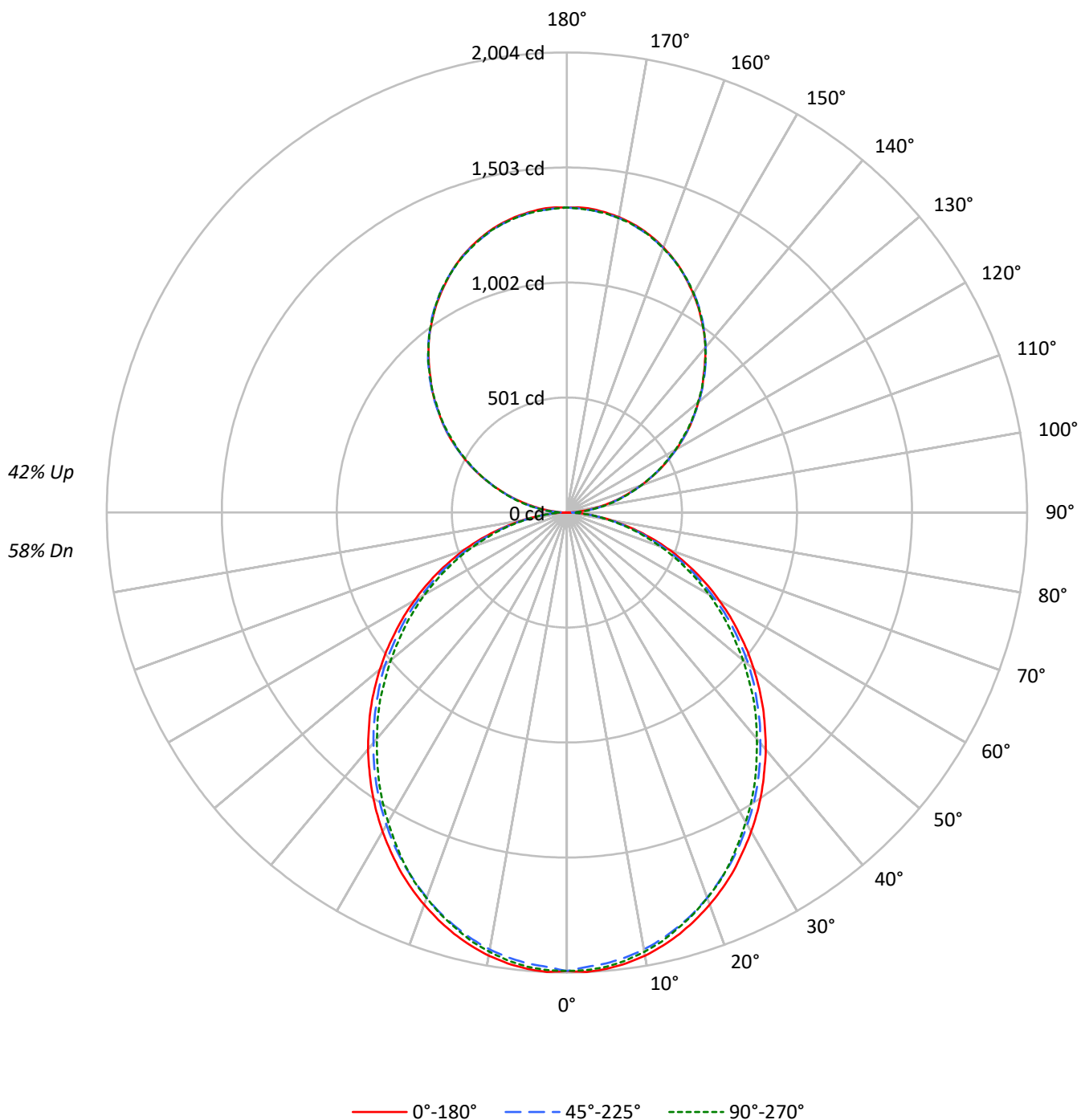
Lumens per Lamp: N/A
Luminaire Lumens: 8815.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 92.8
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64
1	100	95	91	88	93	89	85	82	77	75	72	66	64	63	56	55	54
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45
3	83	73	66	60	77	68	62	56	60	54	50	51	48	44	44	41	38
4	76	65	57	51	70	61	53	48	53	47	43	46	41	38	39	36	33
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	26	23
8	55	43	35	29	51	40	33	28	35	30	25	31	26	23	27	23	20
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18
10	48	36	28	24	45	34	27	23	30	24	21	26	22	19	23	19	17

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	2.1
10°-20°	530.3	6.0
20°-30°	780.5	8.9
30°-40°	907.3	10.3
40°-50°	907.2	10.3
50°-60°	793.4	9.0
60°-70°	589.1	6.7
70°-80°	334.2	3.8
80°-90°	98.5	1.1
90°-100°	86.6	1.0
100°-110°	259.4	2.9
110°-120°	440.6	5.0
120°-130°	581.1	6.6
130°-140°	652.7	7.4
140°-150°	641.5	7.3
150°-160°	539.5	6.1
160°-170°	359.0	4.1
170°-180°	125.7	1.4
0°-30°	1499.1	17.0
0°-40°	2406.3	27.3
0°-60°	4107.0	46.6
0°-90°	5128.8	58.2
90°-120°	786.6	8.9
90°-150°	2661.9	30.2
90°-180°	3686.0	41.8
0°-180°	8815.0	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°	3	14	23	29	31	10
95°	62	71	78	81	81	67
105°	239	240	244	248	251	254
115°	448	448	446	445	444	442
125°	652	652	651	649	647	582
135°	842	848	848	846	842	651
145°	1022	1026	1028	1026	1023	640
155°	1171	1171	1170	1174	1170	539
165°	1275	1272	1270	1276	1272	360
175°	1326	1321	1320	1328	1320	126
180°	1328	1328	1328	1328	1328	

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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°	3.1	14.4	22.6	28.8	30.8
92.5°	26.7	40.1	45.2	48.3	49.3
95°	61.6	70.9	78.1	81.2	81.2
97.5°	98.6	106.9	115.1	119.2	119.2
100°	143.8	148.0	157.2	159.3	159.3
102.5°	191.1	192.1	200.4	203.4	204.5
105°	239.4	240.4	244.5	247.6	250.7
107.5°	289.7	290.8	291.8	295.9	294.9
110°	341.1	343.2	342.1	340.1	343.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	394.5	394.5	392.5	392.5	392.5
115°	448.0	448.0	445.9	444.9	443.9
117.5°	498.3	498.3	497.3	494.2	491.1
120°	548.7	552.8	549.7	544.6	546.6
122.5°	601.1	602.1	601.1	598.0	592.9
125°	652.4	652.4	651.4	649.4	647.3
127.5°	698.7	701.8	699.7	697.7	696.6
130°	748.0	751.1	751.1	749.0	744.9
132.5°	798.3	800.4	799.4	797.3	796.3
135°	841.5	847.7	847.7	845.6	842.5
137.5°	889.8	892.9	894.9	891.8	892.9
140°	938.1	940.1	940.1	939.1	938.1
142.5°	982.3	984.3	983.3	983.3	983.3
145°	1022.3	1026.4	1027.5	1026.4	1023.4
147.5°	1063.4	1068.6	1067.5	1066.5	1065.5
150°	1100.4	1104.5	1104.5	1104.5	1103.5
152.5°	1135.4	1137.4	1138.4	1141.5	1138.4
155°	1171.3	1171.3	1170.3	1174.4	1170.3
157.5°	1202.1	1200.1	1200.1	1203.2	1200.1
160°	1228.9	1227.8	1226.8	1229.9	1224.7
162.5°	1253.5	1250.4	1249.4	1255.6	1250.4
165°	1275.1	1272.0	1270.0	1276.1	1272.0
167.5°	1292.6	1288.5	1288.5	1294.6	1288.5
170°	1306.9	1301.8	1302.8	1309.0	1301.8
172.5°	1317.2	1313.1	1313.1	1320.3	1313.1
175°	1326.5	1321.3	1320.3	1327.5	1320.3
177.5°	1330.6	1325.4	1325.4	1332.6	1324.4
180°	1328.5	1328.5	1328.5	1328.5	1328.5

(END OF REPORT)