

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: P1032937

Luminaire Tested: S124RDIW-B1195D770UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032937
REPORT IS A COMBINATION OF REPORTS P1000232 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B1195D770UB2750-4F0-XX-W2A-F_3500K
Description: Define 4 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

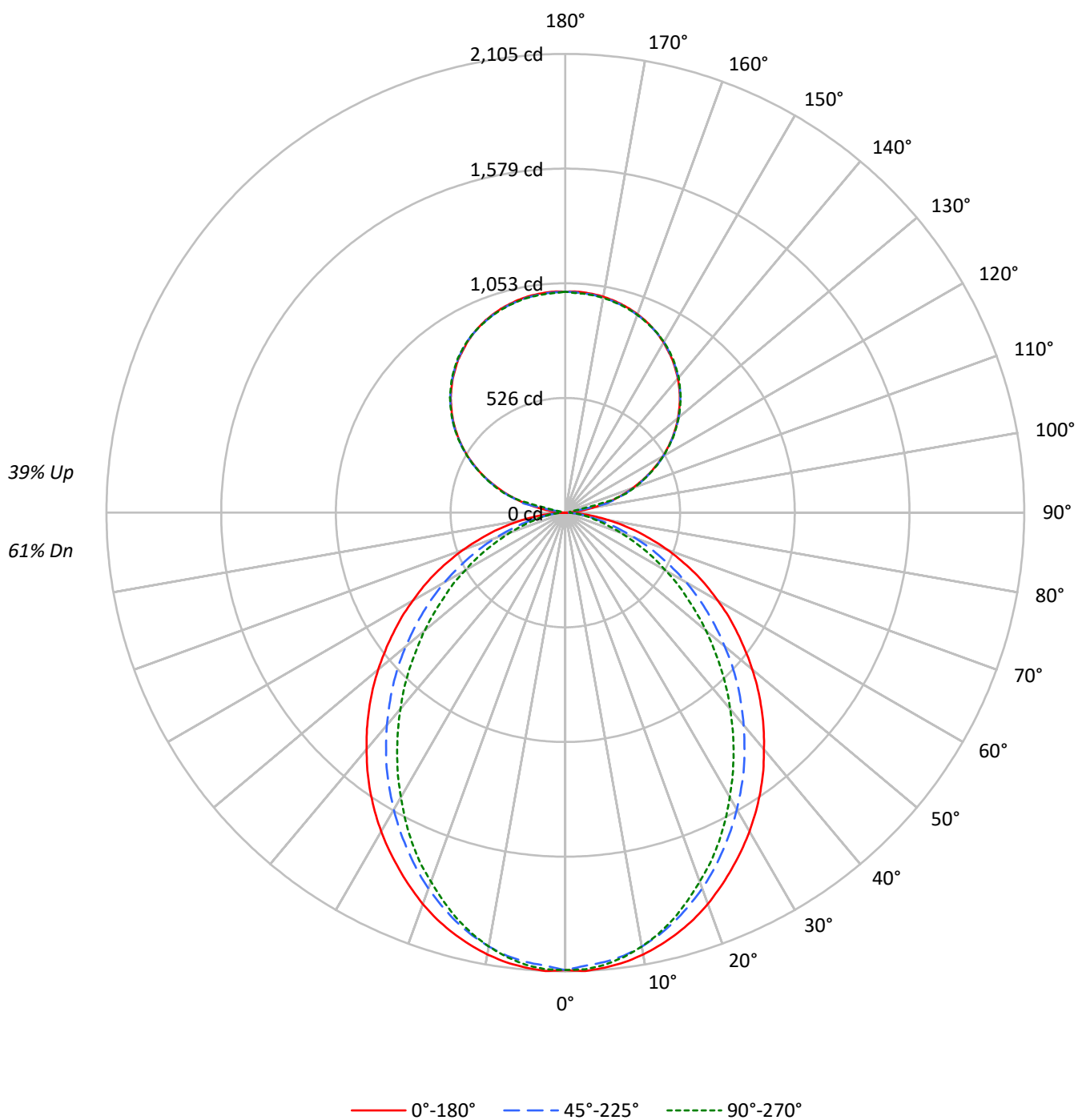
Lumens per Lamp: N/A
Luminaire Lumens: 7989.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	89	89	89	77	77	77	66	66	66
1	101	96	92	89	94	90	87	84	79	76	74	68	67	65	59	58	56
2	92	84	78	73	86	79	74	69	70	65	62	61	57	55	52	50	48
3	84	75	67	61	78	70	64	58	62	57	52	54	50	47	47	44	41
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	38	36
5	71	59	51	45	66	56	48	43	49	44	39	43	39	35	38	34	31
6	65	53	45	39	61	50	43	38	45	39	34	39	35	31	34	31	28
7	61	48	40	35	57	46	38	33	41	35	30	36	31	28	31	28	25
8	56	44	36	31	53	42	34	30	37	31	27	33	28	25	29	25	22
9	53	40	33	28	49	38	31	27	34	28	24	30	26	22	27	23	20
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17116	17116	17116
5°	17118	16608	16610
10°	16973	16084	15893
15°	16740	15431	15046
20°	16434	14687	14082
25°	16052	13885	13139
30°	15679	13066	12082
35°	15268	12236	11047
40°	14780	11342	9985
45°	14321	10456	8933
50°	13800	9489	7864
55°	13237	8496	6762
60°	12612	7443	5673
65°	12008	6234	4624
70°	11150	4961	3534
75°	10052	3611	2471
80°	8394	2217	1777
85°	6316	1276	977

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14321 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.4	2.5
10°-20°	550.3	6.9
20°-30°	794.5	9.9
30°-40°	900.5	11.3
40°-50°	869.4	10.9
50°-60°	722.8	9.0
60°-70°	498.9	6.2
70°-80°	252.1	3.2
80°-90°	66.1	0.8
90°-100°	33.7	0.4
100°-110°	221.6	2.8
110°-120°	423.2	5.3
120°-130°	537.2	6.7
130°-140°	574.7	7.2
140°-150°	537.4	6.7
150°-160°	433.4	5.4
160°-170°	279.5	3.5
170°-180°	96.3	1.2
0°-30°	1542.2	19.3
0°-40°	2442.7	30.6
0°-60°	4035.0	50.5
0°-90°	4852.1	60.7
90°-120°	678.5	8.5
90°-150°	2327.8	29.1
90°-180°	3137.0	39.3
0°-180°	7989.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2099	2099	2099	2099	2099	
5°	2096	2089	2070	2086	2083	199
15°	1996	1982	1942	1938	1927	563
25°	1805	1776	1710	1683	1667	832
35°	1561	1509	1429	1374	1345	975
45°	1273	1213	1117	1038	1009	982
55°	964	900	796	712	682	863
65°	656	587	484	415	395	648
75°	349	289	214	177	167	368
85°	87	55	50	47	47	95
90°	2	11	17	21	23	7
95°	42	16	17	21	22	51
105°	228	233	237	243	216	239
115°	426	428	428	429	429	419
125°	599	602	600	603	604	535
135°	743	742	745	747	748	573
145°	857	859	859	860	861	535
155°	939	940	938	941	939	433
165°	991	987	987	993	986	280
175°	1014	1009	1010	1017	1008	97
180°	1014	1014	1014	1014	1014	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2099.0	2099.0	2099.0	2099.0	2099.0
2.5°	2105.4	2099.0	2081.3	2099.0	2097.4
5°	2095.8	2089.4	2070.1	2086.2	2082.9
7.5°	2081.3	2074.9	2050.8	2062.1	2057.2
10°	2058.8	2050.8	2021.9	2028.3	2021.9
12.5°	2029.9	2020.3	1984.9	1988.1	1978.5
15°	1996.2	1981.7	1941.5	1938.3	1927.0
17.5°	1957.6	1936.7	1890.1	1882.0	1866.0
20°	1911.0	1890.1	1835.4	1822.6	1801.7
22.5°	1859.5	1835.4	1776.0	1755.1	1739.0
25°	1804.9	1776.0	1710.1	1682.7	1666.7
27.5°	1748.6	1713.3	1644.2	1612.0	1589.5
30°	1689.2	1649.0	1573.5	1533.3	1507.6
32.5°	1626.5	1579.9	1501.1	1452.9	1428.8
35°	1560.6	1509.2	1428.8	1374.2	1345.2
37.5°	1491.5	1438.5	1350.1	1290.6	1261.7
40°	1417.6	1364.5	1272.9	1205.4	1176.5
42.5°	1346.8	1290.6	1194.2	1125.0	1094.5
45°	1272.9	1213.4	1117.0	1038.3	1009.3
47.5°	1197.4	1136.3	1036.7	954.7	922.5
50°	1120.2	1057.5	954.7	874.3	843.8
52.5°	1041.5	980.4	874.3	792.4	760.2
55°	964.3	900.0	795.6	712.0	681.5
57.5°	888.8	821.3	718.4	633.2	610.7
60°	806.8	742.5	639.7	556.1	530.4
62.5°	732.9	665.4	559.3	483.8	464.5
65°	655.7	586.6	483.8	414.7	395.4
67.5°	575.4	509.5	413.1	352.0	329.5
70°	499.8	432.3	340.7	287.7	271.6
72.5°	419.5	360.0	274.8	231.4	217.0
75°	348.8	289.3	213.8	176.8	167.1
77.5°	274.8	223.4	159.1	133.4	130.2
80°	204.1	157.5	109.3	104.5	102.9
82.5°	143.0	101.3	78.8	75.5	73.9
85°	86.8	54.6	49.8	46.6	46.6
87.5°	37.0	24.1	22.5	20.9	22.5
90°	2.3	10.6	16.7	21.2	22.7
92.5°	11.4	9.9	15.9	20.5	20.5
95°	41.7	15.9	16.7	21.2	22.0
97.5°	79.6	96.3	16.7	20.5	21.2
100°	124.3	138.0	33.4	20.5	21.2
102.5°	174.4	183.5	192.6	22.0	22.0
105°	228.2	232.8	236.6	243.4	216.1
107.5°	277.5	279.8	285.1	288.9	291.9
110°	327.6	329.8	334.4	335.9	338.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	376.1	380.6	382.1	381.4	384.4
115°	426.1	428.4	427.6	429.2	429.2
117.5°	470.9	473.9	476.2	475.4	475.4
120°	516.4	519.4	518.6	520.1	518.6
122.5°	558.8	560.3	561.8	562.6	561.1
125°	599.0	602.0	600.5	602.8	603.6
127.5°	637.7	638.4	642.2	641.5	640.7
130°	674.8	675.6	677.9	678.6	678.6
132.5°	708.9	710.5	713.5	714.3	713.5
135°	743.1	742.3	745.3	746.9	748.4
137.5°	773.4	773.4	777.2	778.7	777.9
140°	803.0	804.5	806.0	808.3	809.0
142.5°	829.5	832.5	833.3	834.8	834.8
145°	856.8	859.1	859.1	859.8	861.3
147.5°	878.0	882.6	881.8	882.6	883.3
150°	901.5	904.6	903.8	903.8	904.6
152.5°	921.2	923.5	922.0	923.5	922.8
155°	939.4	940.2	937.9	941.0	938.7
157.5°	955.4	955.4	952.3	956.1	952.3
160°	969.0	966.7	966.0	970.5	966.0
162.5°	981.1	978.1	977.4	981.9	976.6
165°	991.0	987.2	987.2	993.3	986.5
167.5°	999.3	995.6	994.8	1001.6	994.0
170°	1006.2	1001.6	1002.4	1008.4	1000.9
172.5°	1010.7	1006.2	1006.9	1013.0	1004.7
175°	1013.8	1009.2	1010.0	1016.8	1007.7
177.5°	1016.0	1010.7	1012.2	1018.3	1009.2
180°	1013.8	1013.8	1013.8	1013.8	1013.8

(END OF REPORT)