

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: P1032927

Luminaire Tested: S124RDIW-B1195D470UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032927
REPORT IS A COMBINATION OF REPORTS P1000188 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B1195D470UB2750-4F0-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

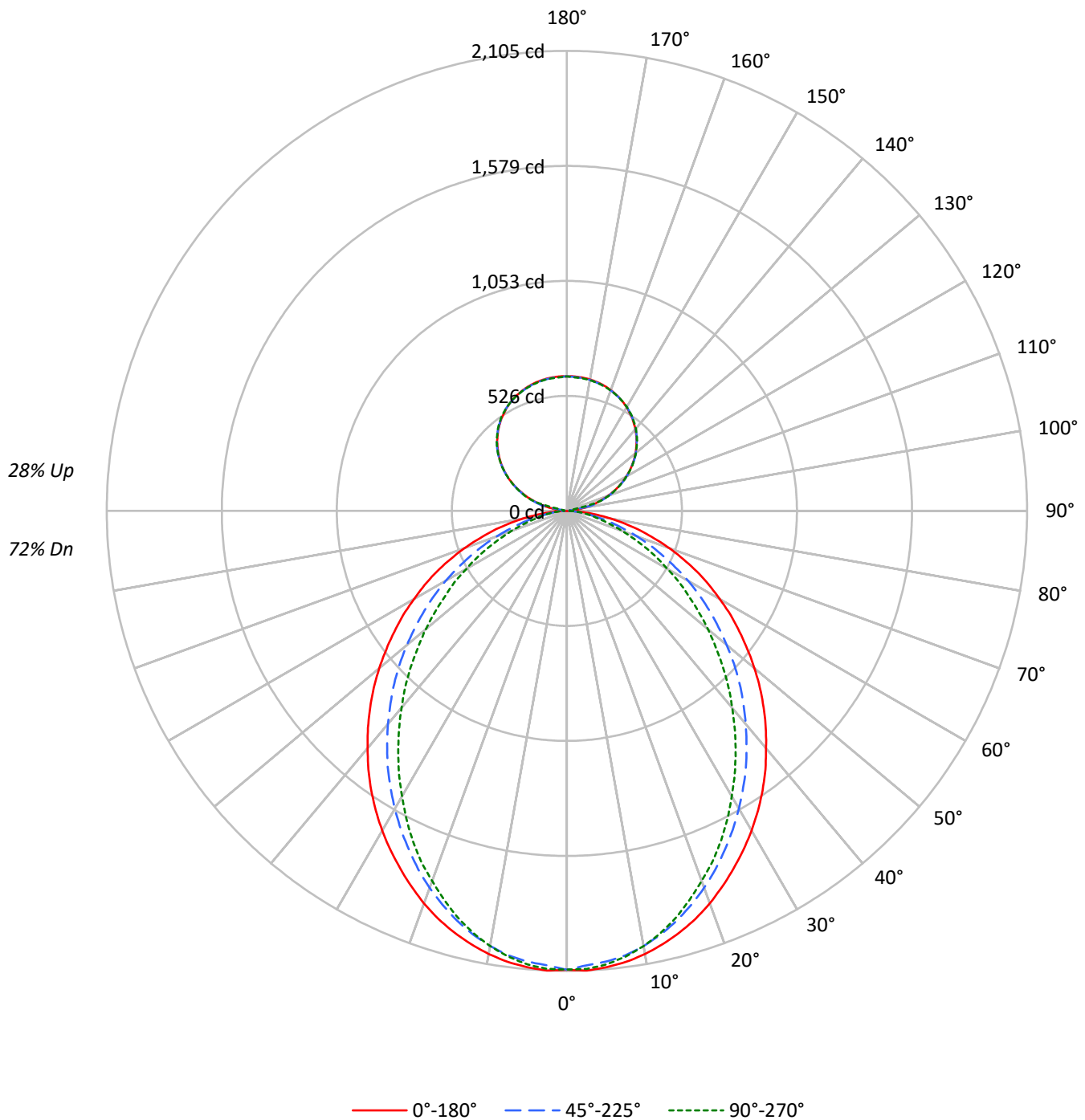
Lumens per Lamp: N/A
Luminaire Lumens: 6755.0 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.5
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76
1	103	99	95	91	98	94	90	87	84	82	79	76	74	72	68	67	65
2	94	87	81	75	89	82	77	72	74	70	66	67	64	61	60	58	55
3	86	77	69	63	81	73	66	61	66	61	56	60	55	52	54	50	48
4	79	68	60	54	75	65	58	52	59	53	48	53	49	45	48	44	41
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	44	40	36
6	67	55	47	41	64	53	45	40	48	42	37	44	39	35	40	35	32
7	62	50	42	36	59	48	40	35	44	37	33	40	35	31	36	32	29
8	58	46	38	32	55	44	36	31	40	34	29	37	31	28	34	29	26
9	54	42	34	29	51	40	33	28	37	31	27	34	29	25	31	27	23
10	51	38	31	26	48	37	30	25	34	28	24	31	26	23	29	25	21

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	2.9
10°-20°	550.3	8.1
20°-30°	794.5	11.8
30°-40°	900.5	13.3
40°-50°	869.4	12.9
50°-60°	722.8	10.7
60°-70°	498.9	7.4
70°-80°	252.1	3.7
80°-90°	65.3	1.0
90°-100°	20.4	0.3
100°-110°	134.5	2.0
110°-120°	256.8	3.8
120°-130°	326.0	4.8
130°-140°	348.8	5.2
140°-150°	326.1	4.8
150°-160°	263.0	3.9
160°-170°	169.6	2.5
170°-180°	58.5	0.9
0°-30°	1542.2	22.8
0°-40°	2442.7	36.2
0°-60°	4035.0	59.7
0°-90°	4851.3	71.8
90°-120°	411.7	6.1
90°-150°	1412.7	20.9
90°-180°	1904.0	28.2
0°-180°	6755.0	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°	1	6	10	13	14	6
95°	25	10	10	13	13	31
105°	138	141	144	148	131	145
115°	259	260	260	260	260	255
125°	364	365	364	366	366	325
135°	451	450	452	453	454	347
145°	520	521	521	522	523	325
155°	570	571	569	571	570	263
165°	601	599	599	603	599	170
175°	615	612	613	617	612	59
180°	615	615	615	615	615	

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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°	1.4	6.4	10.1	12.9	13.8
92.5°	6.9	6.0	9.7	12.4	12.4
95°	25.3	9.7	10.1	12.9	13.3
97.5°	48.3	58.4	10.1	12.4	12.9
100°	75.5	83.7	20.2	12.4	12.9
102.5°	105.8	111.4	116.9	13.3	13.3
105°	138.5	141.3	143.6	147.7	131.1
107.5°	168.4	169.8	173.0	175.3	177.2
110°	198.8	200.2	202.9	203.8	205.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	228.2	231.0	231.9	231.5	233.3
115°	258.6	260.0	259.5	260.4	260.4
117.5°	285.8	287.6	289.0	288.5	288.5
120°	313.4	315.2	314.7	315.7	314.7
122.5°	339.1	340.1	341.0	341.4	340.5
125°	363.5	365.4	364.4	365.8	366.3
127.5°	387.0	387.5	389.8	389.3	388.8
130°	409.5	410.0	411.4	411.8	411.8
132.5°	430.2	431.2	433.0	433.5	433.0
135°	451.0	450.5	452.3	453.3	454.2
137.5°	469.4	469.4	471.7	472.6	472.1
140°	487.3	488.2	489.1	490.5	491.0
142.5°	503.4	505.3	505.7	506.6	506.6
145°	520.0	521.4	521.4	521.8	522.7
147.5°	532.9	535.6	535.2	535.6	536.1
150°	547.1	549.0	548.5	548.5	549.0
152.5°	559.1	560.5	559.5	560.5	560.0
155°	570.1	570.6	569.2	571.1	569.7
157.5°	579.8	579.8	578.0	580.3	578.0
160°	588.1	586.7	586.2	589.0	586.2
162.5°	595.4	593.6	593.1	595.9	592.7
165°	601.4	599.1	599.1	602.8	598.7
167.5°	606.5	604.2	603.7	607.9	603.3
170°	610.6	607.9	608.3	612.0	607.4
172.5°	613.4	610.6	611.1	614.8	609.7
175°	615.2	612.5	612.9	617.1	611.5
177.5°	616.6	613.4	614.3	618.0	612.5
180°	615.2	615.2	615.2	615.2	615.2

(END OF REPORT)