

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: P1033982

Luminaire Tested: S124RDIW-B1195D470UB27-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033982
REPORT IS A COMBINATION OF REPORTS P1000174 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B1195D470UB27-4F0-XX-W2A-F
Description: Define 4 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

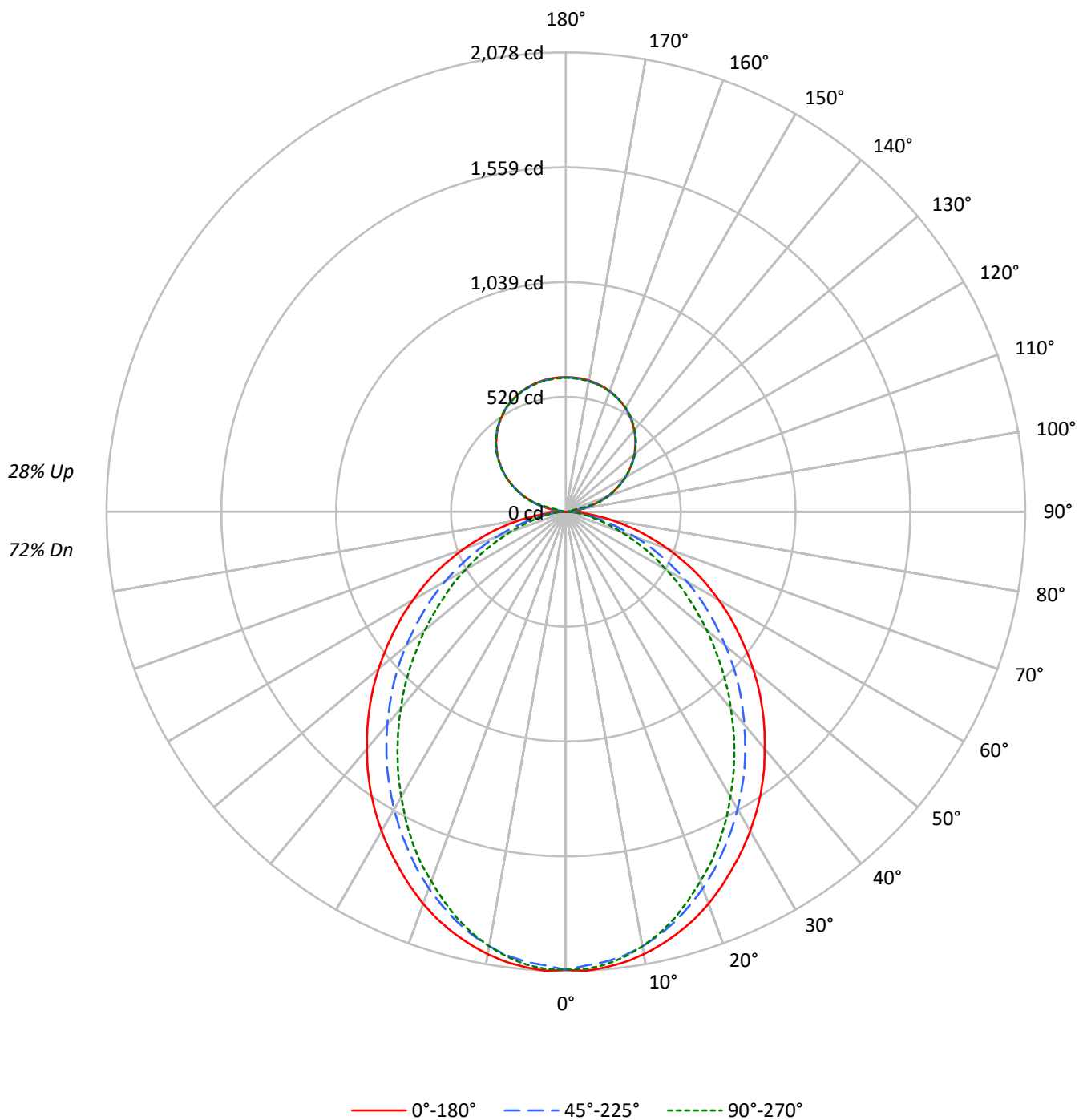
Lumens per Lamp: N/A
Luminaire Lumens: 6669.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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°	16898	16898	16898
5°	16899	16395	16397
10°	16756	15878	15689
15°	16525	15234	14854
20°	16223	14500	13902
25°	15847	13707	12972
30°	15479	12899	11927
35°	15073	12079	10906
40°	14590	11197	9857
45°	14138	10322	8818
50°	13624	9367	7764
55°	13068	8387	6675
60°	12451	7347	5600
65°	11856	6154	4565
70°	11010	4899	3488
75°	9922	3563	2440
80°	8287	2188	1753
85°	6236	1261	964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14138 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.9	2.9
10°-20°	543.3	8.1
20°-30°	784.4	11.8
30°-40°	889.0	13.3
40°-50°	858.3	12.9
50°-60°	713.6	10.7
60°-70°	492.5	7.4
70°-80°	248.9	3.7
80°-90°	64.5	1.0
90°-100°	20.2	0.3
100°-110°	132.8	2.0
110°-120°	253.6	3.8
120°-130°	321.9	4.8
130°-140°	344.4	5.2
140°-150°	322.0	4.8
150°-160°	259.7	3.9
160°-170°	167.5	2.5
170°-180°	57.7	0.9
0°-30°	1522.5	22.8
0°-40°	2411.5	36.2
0°-60°	3983.4	59.7
0°-90°	4789.2	71.8
90°-120°	406.6	6.1
90°-150°	1394.9	20.9
90°-180°	1880.0	28.2
0°-180°	6669.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2072	2072	2072	2072	2072	
5°	2069	2063	2044	2060	2056	196
15°	1971	1956	1917	1914	1902	555
25°	1782	1753	1688	1661	1645	821
35°	1541	1490	1410	1357	1328	963
45°	1257	1198	1103	1025	996	969
55°	952	888	785	703	673	852
65°	647	579	478	409	390	639
75°	344	286	211	174	165	363
85°	86	54	49	46	46	94
90°	1	6	10	13	14	6
95°	25	10	10	13	13	31
105°	137	140	142	146	130	143
115°	255	257	256	257	257	251
125°	359	361	360	361	362	321
135°	445	445	447	448	448	343
145°	513	515	515	515	516	321
155°	563	563	562	564	562	260
165°	594	592	592	595	591	168
175°	608	605	605	609	604	58
180°	608	608	608	608	608	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2072.2	2072.2	2072.2	2072.2	2072.2
2.5°	2078.5	2072.2	2054.7	2072.2	2070.6
5°	2069.0	2062.7	2043.6	2059.5	2056.3
7.5°	2054.7	2048.4	2024.6	2035.7	2030.9
10°	2032.5	2024.6	1996.0	2002.4	1996.0
12.5°	2004.0	1994.4	1959.5	1962.7	1953.2
15°	1970.6	1956.4	1916.7	1913.5	1902.4
17.5°	1932.6	1911.9	1865.9	1858.0	1842.1
20°	1886.5	1865.9	1812.0	1799.3	1778.7
22.5°	1835.8	1812.0	1753.3	1732.6	1716.8
25°	1781.8	1753.3	1688.2	1661.2	1645.4
27.5°	1726.3	1691.4	1623.2	1591.4	1569.2
30°	1667.6	1627.9	1553.3	1513.7	1488.3
32.5°	1605.7	1559.7	1481.9	1434.3	1410.5
35°	1540.7	1489.9	1410.5	1356.6	1328.0
37.5°	1472.4	1420.1	1332.8	1274.1	1245.5
40°	1399.4	1347.1	1256.6	1190.0	1161.4
42.5°	1329.6	1274.1	1178.9	1110.7	1080.5
45°	1256.6	1197.9	1102.7	1025.0	996.4
47.5°	1182.1	1121.8	1023.4	942.5	910.7
50°	1105.9	1044.0	942.5	863.1	833.0
52.5°	1028.2	967.9	863.1	782.2	750.5
55°	952.0	888.5	785.4	702.9	672.7
57.5°	877.4	810.8	709.2	625.1	602.9
60°	796.5	733.0	631.5	549.0	523.6
62.5°	723.5	656.9	552.2	477.6	458.5
65°	647.4	579.1	477.6	409.4	390.3
67.5°	568.0	503.0	407.8	347.5	325.3
70°	493.5	426.8	336.4	284.0	268.1
72.5°	414.1	355.4	271.3	228.5	214.2
75°	344.3	285.6	211.0	174.5	165.0
77.5°	271.3	220.5	157.1	131.7	128.5
80°	201.5	155.5	107.9	103.1	101.5
82.5°	141.2	100.0	77.7	74.6	73.0
85°	85.7	53.9	49.2	46.0	46.0
87.5°	36.5	23.8	22.2	20.6	22.2
90°	1.4	6.4	10.0	12.7	13.6
92.5°	6.8	5.9	9.5	12.3	12.3
95°	25.0	9.5	10.0	12.7	13.2
97.5°	47.7	57.7	10.0	12.3	12.7
100°	74.5	82.7	20.0	12.3	12.7
102.5°	104.5	110.0	115.4	13.2	13.2
105°	136.8	139.5	141.8	145.8	129.5
107.5°	166.3	167.7	170.8	173.1	174.9
110°	196.3	197.6	200.4	201.3	202.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	225.4	228.1	229.0	228.5	230.4
115°	255.3	256.7	256.3	257.2	257.2
117.5°	282.2	284.0	285.3	284.9	284.9
120°	309.4	311.2	310.8	311.7	310.8
122.5°	334.9	335.8	336.7	337.1	336.2
125°	358.9	360.8	359.9	361.2	361.7
127.5°	382.1	382.6	384.8	384.4	383.9
130°	404.4	404.8	406.2	406.7	406.7
132.5°	424.8	425.7	427.6	428.0	427.6
135°	445.3	444.8	446.6	447.5	448.5
137.5°	463.4	463.4	465.7	466.6	466.2
140°	481.2	482.1	483.0	484.3	484.8
142.5°	497.1	498.9	499.3	500.2	500.2
145°	513.4	514.8	514.8	515.2	516.2
147.5°	526.1	528.9	528.4	528.9	529.3
150°	540.2	542.0	541.6	541.6	542.0
152.5°	552.0	553.4	552.5	553.4	553.0
155°	562.9	563.4	562.0	563.9	562.5
157.5°	572.5	572.5	570.7	572.9	570.7
160°	580.7	579.3	578.9	581.6	578.9
162.5°	587.9	586.1	585.7	588.4	585.2
165°	593.8	591.6	591.6	595.2	591.1
167.5°	598.8	596.6	596.1	600.2	595.7
170°	602.9	600.2	600.7	604.3	599.8
172.5°	605.7	602.9	603.4	607.0	602.0
175°	607.5	604.8	605.2	609.3	603.8
177.5°	608.8	605.7	606.6	610.2	604.8
180°	607.5	607.5	607.5	607.5	607.5

(END OF REPORT)