

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: P1026173

Luminaire Tested: S124RDIP-B1195D590UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026173
REPORT IS A COMBINATION OF REPORTS P999143 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B1195D590UB27-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

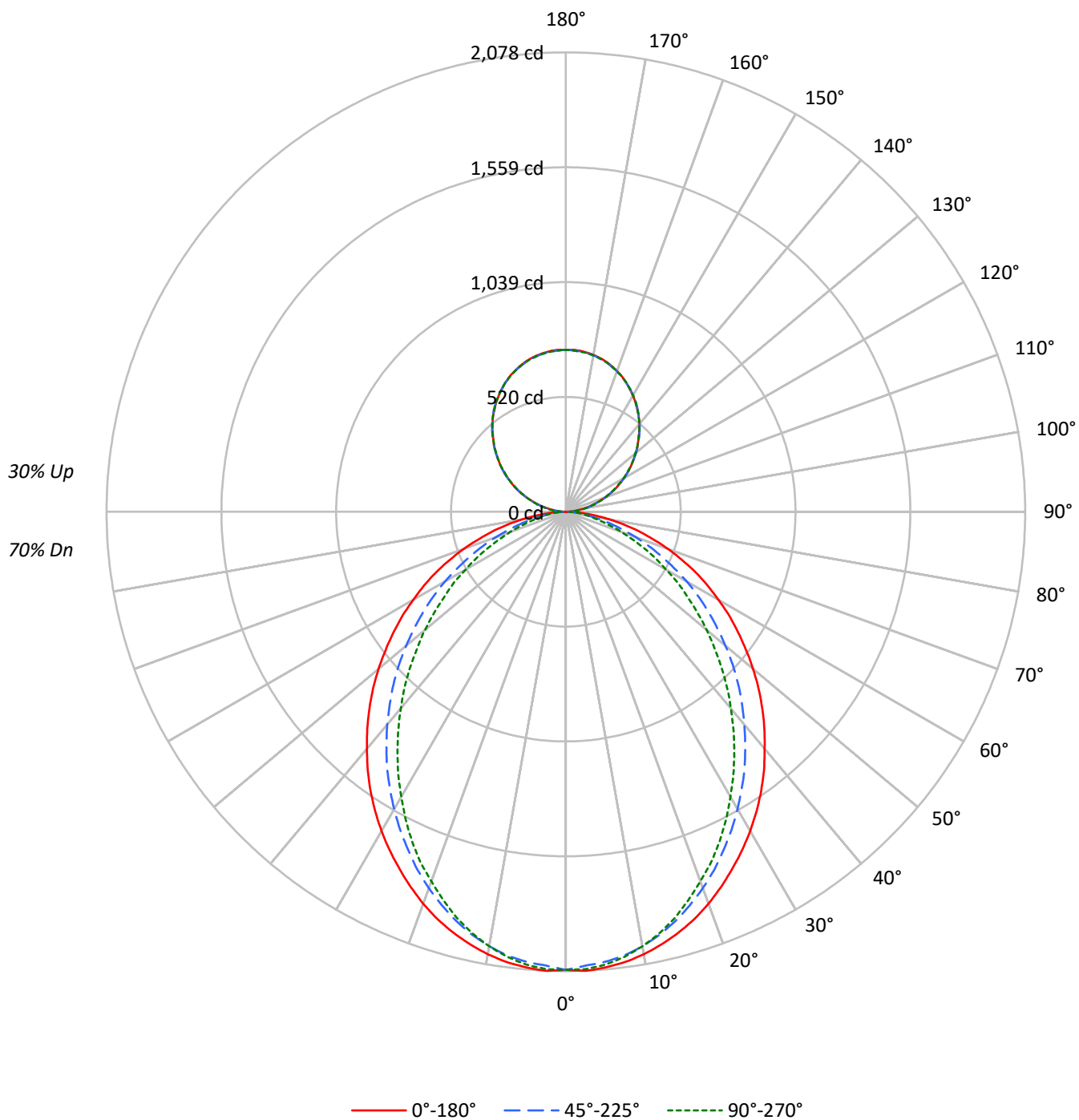
Lumens per Lamp: N/A
Luminaire Lumens: 6822.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	84	84	84	75	75	75
1	103	98	95	91	97	93	90	87	84	81	79	75	73	71	67	65	64
2	94	86	80	75	89	82	77	72	74	69	66	66	63	60	59	57	54
3	86	76	69	63	81	73	66	61	65	60	56	59	55	51	53	49	47
4	79	68	60	54	74	65	57	52	58	53	48	53	48	44	47	44	41
5	73	61	52	46	68	58	50	45	53	46	42	48	43	39	43	39	36
6	67	55	46	41	63	52	45	39	48	41	37	43	38	34	39	35	31
7	62	50	42	36	59	47	40	35	43	37	32	39	34	30	36	31	28
8	58	45	37	32	55	43	36	31	40	33	29	36	31	27	33	29	25
9	54	42	34	29	51	40	33	28	36	30	26	33	28	25	30	26	23
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	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	8.0
20°-30°	784.4	11.5
30°-40°	889.0	13.0
40°-50°	858.3	12.6
50°-60°	713.6	10.5
60°-70°	492.5	7.2
70°-80°	248.9	3.6
80°-90°	64.8	0.9
90°-100°	47.7	0.7
100°-110°	143.0	2.1
110°-120°	242.9	3.6
120°-130°	320.4	4.7
130°-140°	359.9	5.3
140°-150°	353.7	5.2
150°-160°	297.5	4.4
160°-170°	197.9	2.9
170°-180°	69.3	1.0
0°-30°	1522.5	22.3
0°-40°	2411.5	35.3
0°-60°	3983.4	58.4
0°-90°	4789.5	70.2
90°-120°	433.7	6.4
90°-150°	1467.7	21.5
90°-180°	2032.0	29.8
0°-180°	6822.0	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°	2	8	12	16	17	7
95°	34	39	43	45	45	37
105°	132	133	135	136	138	140
115°	247	247	246	245	245	244
125°	360	360	359	358	357	321
135°	464	467	467	466	464	359
145°	564	566	566	566	564	353
155°	646	646	645	648	645	297
165°	703	701	700	704	701	198
175°	731	728	728	732	728	69
180°	732	732	732	732	732	

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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°	1.7	7.9	12.5	15.9	17.0
92.5°	14.7	22.1	24.9	26.6	27.2
95°	34.0	39.1	43.1	44.8	44.8
97.5°	54.4	58.9	63.4	65.7	65.7
100°	79.3	81.6	86.7	87.8	87.8
102.5°	105.4	105.9	110.5	112.2	112.7
105°	132.0	132.6	134.8	136.5	138.2
107.5°	159.8	160.3	160.9	163.2	162.6
110°	188.1	189.2	188.6	187.5	189.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.5	217.5	216.4	216.4	216.4
115°	247.0	247.0	245.9	245.3	244.7
117.5°	274.8	274.8	274.2	272.5	270.8
120°	302.5	304.8	303.1	300.3	301.4
122.5°	331.4	332.0	331.4	329.7	326.9
125°	359.7	359.7	359.2	358.0	356.9
127.5°	385.2	386.9	385.8	384.7	384.1
130°	412.4	414.1	414.1	413.0	410.7
132.5°	440.2	441.3	440.7	439.6	439.1
135°	464.0	467.4	467.4	466.2	464.5
137.5°	490.6	492.3	493.4	491.7	492.3
140°	517.2	518.4	518.4	517.8	517.2
142.5°	541.6	542.7	542.2	542.2	542.2
145°	563.7	565.9	566.5	565.9	564.3
147.5°	586.3	589.2	588.6	588.0	587.5
150°	606.7	609.0	609.0	609.0	608.4
152.5°	626.0	627.1	627.7	629.4	627.7
155°	645.8	645.8	645.3	647.5	645.3
157.5°	662.8	661.7	661.7	663.4	661.7
160°	677.6	677.0	676.4	678.1	675.3
162.5°	691.2	689.5	688.9	692.3	689.5
165°	703.0	701.3	700.2	703.6	701.3
167.5°	712.7	710.4	710.4	713.8	710.4
170°	720.6	717.8	718.3	721.7	717.8
172.5°	726.3	724.0	724.0	728.0	724.0
175°	731.4	728.5	728.0	731.9	728.0
177.5°	733.6	730.8	730.8	734.8	730.2
180°	732.5	732.5	732.5	732.5	732.5

(END OF REPORT)