

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: P1026210

Luminaire Tested: S124RDIP-B1195D810UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026210
REPORT IS A COMBINATION OF REPORTS P999200 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B1195D810UB30-4F0-XX-W2A-F4
Description: Define 4 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

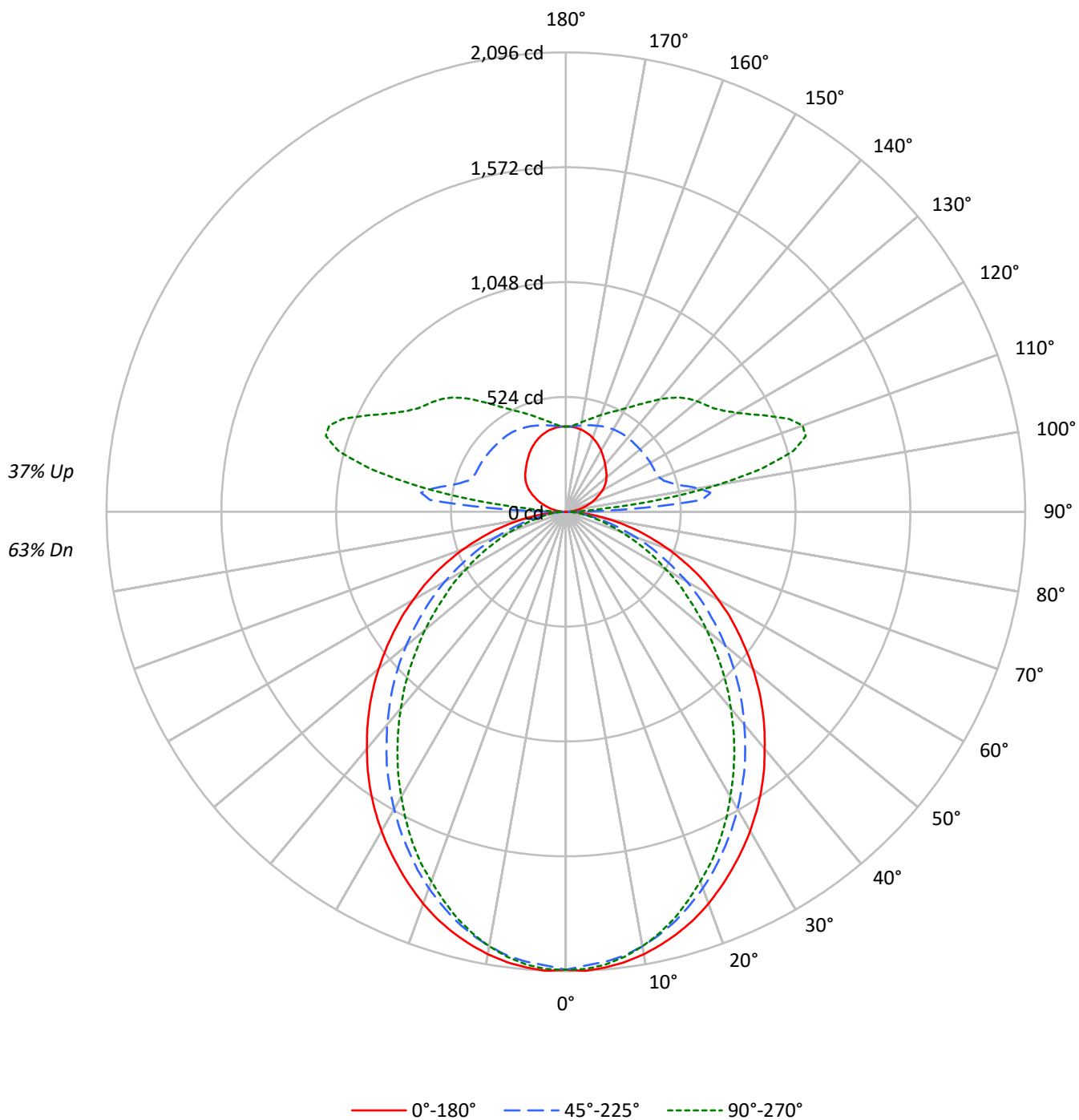
Lumens per Lamp: N/A
Luminaire Lumens: 7667.6 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 82.4
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

TEST NUMBER: P1026210

CATALOG NUMBER: S124RDIP-B1195D810UB30-4F0-XX-W2A-F4

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	91	91	91	79	79	79	68	68	68
1	101	97	93	89	95	91	88	85	80	78	75	70	68	66	61	59	58
2	92	85	79	74	86	80	75	70	71	66	63	62	59	56	54	52	50
3	84	75	68	62	79	71	64	59	63	57	53	55	51	48	48	45	43
4	77	67	59	53	72	63	56	50	56	50	46	49	45	41	43	40	37
5	71	60	51	45	67	56	49	43	50	44	40	44	40	36	39	35	32
6	66	54	45	40	62	51	43	38	45	39	35	40	35	32	35	32	29
7	61	49	41	35	57	46	39	34	41	35	31	37	32	28	32	29	26
8	57	44	36	31	53	42	35	30	38	32	28	34	29	25	30	26	23
9	53	41	33	28	50	39	32	27	35	29	25	31	26	23	28	24	21
10	49	37	30	25	46	35	29	24	32	26	23	29	24	21	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17042	17042	17042
5°	17044	16536	16538
10°	16899	16014	15824
15°	16667	15365	14981
20°	16362	14624	14021
25°	15983	13825	13083
30°	15611	13009	12029
35°	15202	12183	11000
40°	14716	11293	9942
45°	14259	10411	8895
50°	13741	9447	7830
55°	13180	8459	6733
60°	12557	7410	5648
65°	11957	6207	4604
70°	11104	4941	3518
75°	10008	3594	2460
80°	8357	2207	1769
85°	6287	1271	973

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14259 cd/sqm

TEST NUMBER: P1026210

CATALOG NUMBER: S124RDIP-B1195D810UB30-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.5	2.6
10°-20°	547.9	7.1
20°-30°	791.1	10.3
30°-40°	896.6	11.7
40°-50°	865.7	11.3
50°-60°	719.7	9.4
60°-70°	496.8	6.5
70°-80°	251.0	3.3
80°-90°	65.2	0.9
90°-100°	288.8	3.8
100°-110°	587.3	7.7
110°-120°	523.5	6.8
120°-130°	439.8	5.7
130°-140°	367.0	4.8
140°-150°	280.3	3.7
150°-160°	197.0	2.6
160°-170°	115.9	1.5
170°-180°	37.7	0.5
0°-30°	1535.6	20.0
0°-40°	2432.1	31.7
0°-60°	4017.5	52.4
0°-90°	4830.5	63.0
90°-120°	1399.6	18.3
90°-150°	2486.6	32.4
90°-180°	2837.0	37.0
0°-180°	7667.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2090	2090	2090	2090	2090	
5°	2087	2080	2061	2077	2074	198
15°	1988	1973	1933	1930	1919	560
25°	1797	1768	1703	1676	1660	828
35°	1554	1503	1423	1368	1339	971
45°	1267	1208	1112	1034	1005	977
55°	960	896	792	709	678	859
65°	653	584	482	413	394	645
75°	347	288	213	176	166	366
85°	86	54	50	46	46	95
90°	1	6	14	15	16	7
95°	25	79	622	308	186	28
105°	89	129	501	1079	1075	95
115°	157	197	447	858	1032	156
125°	219	260	444	731	823	195
135°	260	310	441	648	736	201
145°	300	344	438	547	601	188
155°	341	369	426	483	503	157
165°	372	383	409	433	439	105
175°	388	389	392	397	396	37
180°	389	389	389	389	389	

TEST NUMBER: P1026210

CATALOG NUMBER: S124RDIP-B1195D810UB30-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2089.9	2089.9	2089.9	2089.9	2089.9
2.5°	2096.3	2089.9	2072.3	2089.9	2088.3
5°	2086.7	2080.3	2061.1	2077.1	2073.9
7.5°	2072.3	2065.9	2041.9	2053.1	2048.3
10°	2049.9	2041.9	2013.1	2019.5	2013.1
12.5°	2021.1	2011.5	1976.3	1979.5	1969.9
15°	1987.5	1973.1	1933.1	1929.9	1918.7
17.5°	1949.1	1928.3	1881.9	1873.9	1857.9
20°	1902.7	1881.9	1827.5	1814.7	1793.9
22.5°	1851.5	1827.5	1768.3	1747.5	1731.5
25°	1797.1	1768.3	1702.7	1675.5	1659.5
27.5°	1741.1	1705.9	1637.1	1605.1	1582.6
30°	1681.9	1641.9	1566.6	1526.6	1501.0
32.5°	1619.5	1573.0	1494.6	1446.6	1422.6
35°	1553.8	1502.6	1422.6	1368.2	1339.4
37.5°	1485.0	1432.2	1344.2	1285.0	1256.2
40°	1411.4	1358.6	1267.4	1200.2	1171.4
42.5°	1341.0	1285.0	1189.0	1120.2	1089.8
45°	1267.4	1208.2	1112.2	1033.8	1005.0
47.5°	1192.2	1131.4	1032.2	950.5	918.5
50°	1115.4	1053.0	950.5	870.5	840.1
52.5°	1037.0	976.2	870.5	788.9	756.9
55°	960.2	896.1	792.1	708.9	678.5
57.5°	884.9	817.7	715.3	630.5	608.1
60°	803.3	739.3	636.9	553.7	528.1
62.5°	729.7	662.5	556.9	481.7	462.5
65°	652.9	584.1	481.7	412.9	393.7
67.5°	572.9	507.3	411.3	350.5	328.1
70°	497.7	430.5	339.3	286.4	270.4
72.5°	417.7	358.5	273.6	230.4	216.0
75°	347.3	288.0	212.8	176.0	166.4
77.5°	273.6	222.4	158.4	132.8	129.6
80°	203.2	156.8	108.8	104.0	102.4
82.5°	142.4	100.8	78.4	75.2	73.6
85°	86.4	54.4	49.6	46.4	46.4
87.5°	36.8	24.0	22.4	20.8	22.4
90°	0.8	6.1	13.7	15.3	16.0
92.5°	10.7	58.8	299.4	99.0	69.5
95°	25.2	79.4	622.5	308.2	186.4
97.5°	42.0	87.8	666.0	629.4	447.6
100°	58.0	99.3	614.1	870.8	700.4
102.5°	73.3	113.0	549.2	1022.0	920.4
105°	89.4	129.4	501.0	1078.8	1074.6
107.5°	106.9	146.2	469.7	1061.6	1148.0
110°	124.5	163.1	455.2	1000.6	1149.5



TEST NUMBER: P1026210

CATALOG NUMBER: S124RDIP-B1195D810UB30-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.3	179.9	448.3	925.7	1104.4
115°	157.3	197.4	446.8	858.5	1031.9
117.5°	174.1	213.9	446.0	805.8	960.8
120°	190.9	229.9	446.0	770.3	902.8
122.5°	206.2	245.6	445.3	747.0	857.0
125°	219.2	260.5	444.5	730.6	823.4
127.5°	231.4	274.2	443.0	714.9	802.0
130°	241.4	287.6	442.2	696.2	783.6
132.5°	251.3	299.0	441.5	674.0	763.0
135°	260.4	310.1	440.7	648.4	736.3
137.5°	269.6	319.6	440.7	621.0	705.0
140°	279.5	328.5	439.9	594.2	670.6
142.5°	290.2	336.4	439.9	569.4	633.9
145°	300.2	343.7	438.4	546.9	601.1
147.5°	311.6	350.5	436.1	528.2	570.5
150°	322.3	357.0	433.8	511.0	545.3
152.5°	332.2	363.2	430.0	496.4	522.4
155°	341.4	368.6	426.2	482.7	503.3
157.5°	350.6	373.5	422.4	469.7	485.8
160°	359.0	377.7	417.8	456.8	469.7
162.5°	366.6	381.2	413.2	444.2	454.4
165°	372.0	383.4	408.6	432.7	439.2
167.5°	378.1	385.3	404.0	422.8	427.0
170°	381.9	386.8	399.5	412.8	415.5
172.5°	385.7	388.0	394.9	404.0	404.0
175°	388.0	388.8	391.8	397.2	395.6
177.5°	389.5	388.8	389.5	392.2	389.5
180°	388.8	388.8	388.8	388.8	388.8

(END OF REPORT)