

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: P1026228

Luminaire Tested: S124RDIP-B1195D810UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026228
REPORT IS A COMBINATION OF REPORTS P999218 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B1195D810UB50-4F0-XX-W2A-F4
Description: Define 4 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

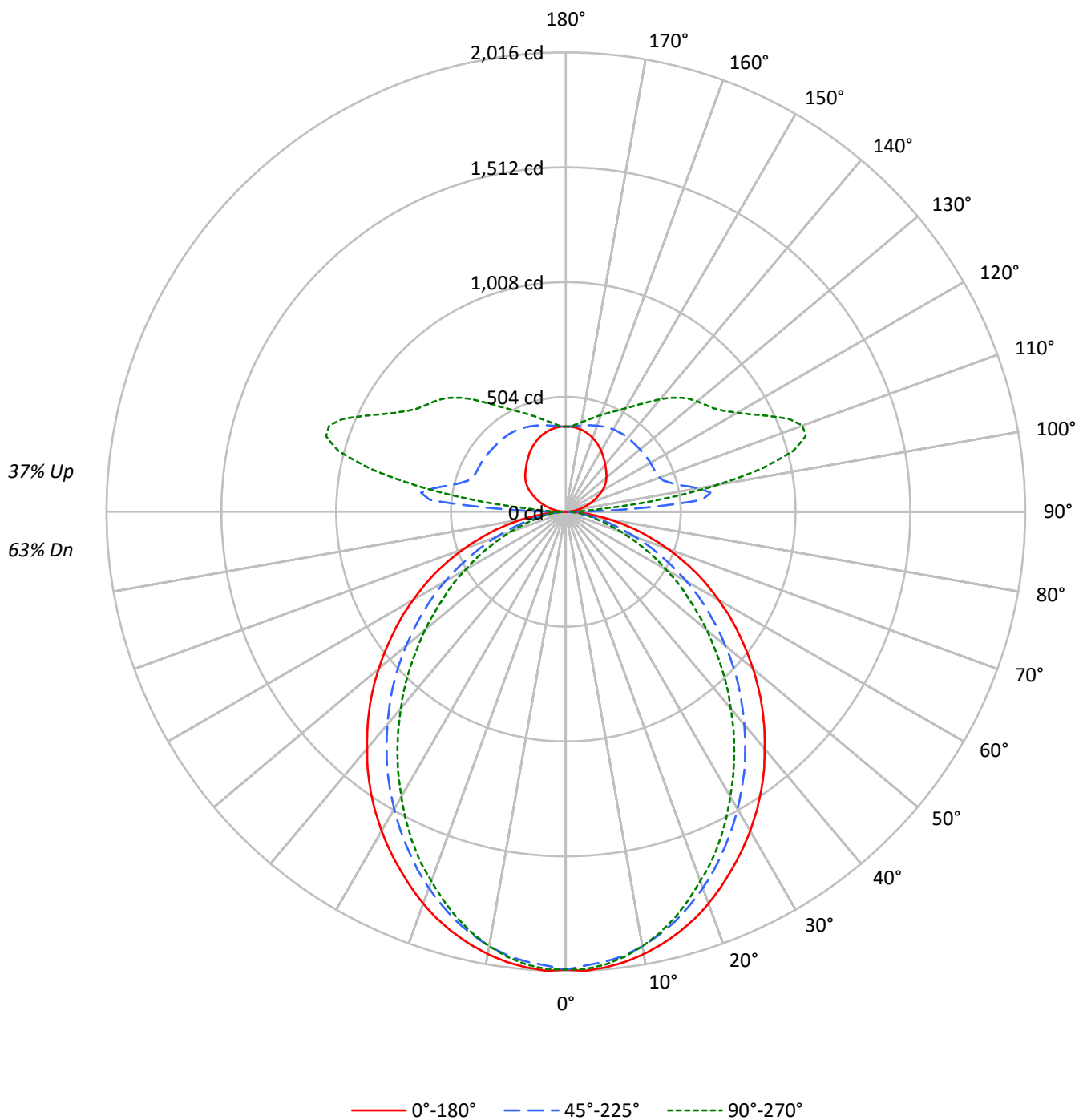
Lumens per Lamp: N/A
Luminaire Lumens: 7373.4 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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

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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	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°	16390	16390	16390
5°	16391	15903	15905
10°	16252	15401	15218
15°	16029	14776	14408
20°	15735	14064	13484
25°	15370	13295	12581
30°	15013	12511	11568
35°	14620	11716	10578
40°	14151	10860	9561
45°	13713	10012	8554
50°	13213	9085	7530
55°	12675	8135	6475
60°	12077	7126	5432
65°	11499	5969	4428
70°	10677	4752	3384
75°	9625	3457	2367
80°	8037	2121	1701
85°	6047	1222	935

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13713 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	2.6
10°-20°	527.0	7.1
20°-30°	760.8	10.3
30°-40°	862.2	11.7
40°-50°	832.5	11.3
50°-60°	692.1	9.4
60°-70°	477.7	6.5
70°-80°	241.4	3.3
80°-90°	62.7	0.9
90°-100°	277.7	3.8
100°-110°	564.7	7.7
110°-120°	503.4	6.8
120°-130°	422.8	5.7
130°-140°	352.9	4.8
140°-150°	269.5	3.7
150°-160°	189.4	2.6
160°-170°	111.4	1.5
170°-180°	36.2	0.5
0°-30°	1476.7	20.0
0°-40°	2339.0	31.7
0°-60°	3863.6	52.4
0°-90°	4645.4	63.0
90°-120°	1345.8	18.3
90°-150°	2390.9	32.4
90°-180°	2728.0	37.0
0°-180°	7373.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2010	2010	2010	2010	2010	
5°	2007	2001	1982	1998	1994	190
15°	1911	1898	1859	1856	1845	539
25°	1728	1700	1637	1611	1596	796
35°	1494	1445	1368	1316	1288	934
45°	1219	1162	1070	994	966	940
55°	923	862	762	682	652	826
65°	628	562	463	397	379	620
75°	334	277	205	169	160	352
85°	83	52	48	45	45	91
90°	1	6	13	15	15	6
95°	24	76	598	296	179	27
105°	86	124	482	1037	1033	92
115°	151	190	430	825	992	150
125°	211	250	427	702	792	188
135°	250	298	424	624	708	194
145°	289	330	422	526	578	181
155°	328	354	410	464	484	151
165°	358	369	393	416	422	101
175°	373	374	377	382	380	35
180°	374	374	374	374	374	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2009.9	2009.9	2009.9	2009.9	2009.9
2.5°	2016.0	2009.9	1992.9	2009.9	2008.3
5°	2006.8	2000.6	1982.2	1997.6	1994.5
7.5°	1992.9	1986.8	1963.7	1974.5	1969.8
10°	1971.4	1963.7	1936.0	1942.1	1936.0
12.5°	1943.7	1934.5	1900.6	1903.7	1894.4
15°	1911.4	1897.5	1859.0	1856.0	1845.2
17.5°	1874.4	1854.4	1809.8	1802.1	1786.7
20°	1829.8	1809.8	1757.5	1745.2	1725.2
22.5°	1780.6	1757.5	1700.5	1680.5	1665.1
25°	1728.2	1700.5	1637.4	1611.3	1595.9
27.5°	1674.4	1640.5	1574.3	1543.6	1522.0
30°	1617.4	1579.0	1506.6	1468.2	1443.5
32.5°	1557.4	1512.8	1437.4	1391.2	1368.1
35°	1494.3	1445.1	1368.1	1315.8	1288.1
37.5°	1428.1	1377.4	1292.7	1235.8	1208.1
40°	1357.3	1306.6	1218.8	1154.2	1126.5
42.5°	1289.6	1235.8	1143.4	1077.3	1048.0
45°	1218.8	1161.9	1069.6	994.2	966.5
47.5°	1146.5	1088.0	992.6	914.1	883.4
50°	1072.6	1012.6	914.1	837.2	807.9
52.5°	997.2	938.8	837.2	758.7	727.9
55°	923.4	861.8	761.8	681.8	652.5
57.5°	851.0	786.4	687.9	606.3	584.8
60°	772.6	711.0	612.5	532.5	507.9
62.5°	701.8	637.1	535.6	463.2	444.8
65°	627.9	561.7	463.2	397.0	378.6
67.5°	550.9	487.8	395.5	337.0	315.5
70°	478.6	414.0	326.3	275.5	260.1
72.5°	401.7	344.7	263.2	221.6	207.8
75°	334.0	277.0	204.7	169.3	160.1
77.5°	263.2	213.9	152.4	127.7	124.7
80°	195.4	150.8	104.6	100.0	98.5
82.5°	137.0	97.0	75.4	72.3	70.8
85°	83.1	52.3	47.7	44.6	44.6
87.5°	35.4	23.1	21.5	20.0	21.5
90°	0.7	5.9	13.2	14.7	15.4
92.5°	10.3	56.6	287.9	95.1	66.8
95°	24.2	76.4	598.5	296.3	179.2
97.5°	40.4	84.4	640.4	605.2	430.4
100°	55.8	95.4	590.5	837.2	673.4
102.5°	70.5	108.7	528.0	982.6	884.9
105°	85.9	124.4	481.8	1037.4	1033.3
107.5°	102.8	140.6	451.7	1020.8	1103.8
110°	119.7	156.8	437.7	962.0	1105.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.9	173.0	431.1	890.1	1061.9
115°	151.3	189.9	429.6	825.4	992.2
117.5°	167.4	205.6	428.9	774.8	923.9
120°	183.6	221.0	428.9	740.7	868.1
122.5°	198.3	236.1	428.2	718.2	824.0
125°	210.8	250.4	427.4	702.4	791.7
127.5°	222.5	263.6	425.9	687.4	771.1
130°	232.1	276.5	425.2	669.4	753.5
132.5°	241.6	287.5	424.5	648.1	733.7
135°	250.4	298.2	423.7	623.5	708.0
137.5°	259.2	307.4	423.7	597.1	677.8
140°	268.8	315.8	423.0	571.3	644.8
142.5°	279.1	323.5	423.0	547.4	609.5
145°	288.6	330.5	421.5	525.8	578.0
147.5°	299.6	337.0	419.3	507.8	548.6
150°	309.9	343.4	417.1	491.3	524.4
152.5°	319.5	349.2	413.5	477.4	502.3
155°	328.3	354.4	409.8	464.1	484.0
157.5°	337.1	359.1	406.1	451.6	467.1
160°	345.2	363.2	401.7	439.2	451.7
162.5°	352.5	366.4	397.3	427.0	437.0
165°	357.7	368.7	392.9	416.0	422.3
167.5°	363.5	370.5	388.5	406.5	410.5
170°	367.2	372.0	384.1	396.9	399.5
172.5°	370.9	373.0	379.7	388.5	388.5
175°	373.1	373.8	376.7	381.9	380.4
177.5°	374.5	373.8	374.5	377.1	374.5
180°	373.8	373.8	373.8	373.8	373.8

(END OF REPORT)