

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: P1026197

Luminaire Tested: S124RDIP-B1195D590UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026197
REPORT IS A COMBINATION OF REPORTS P999177 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B1195D590UB50-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

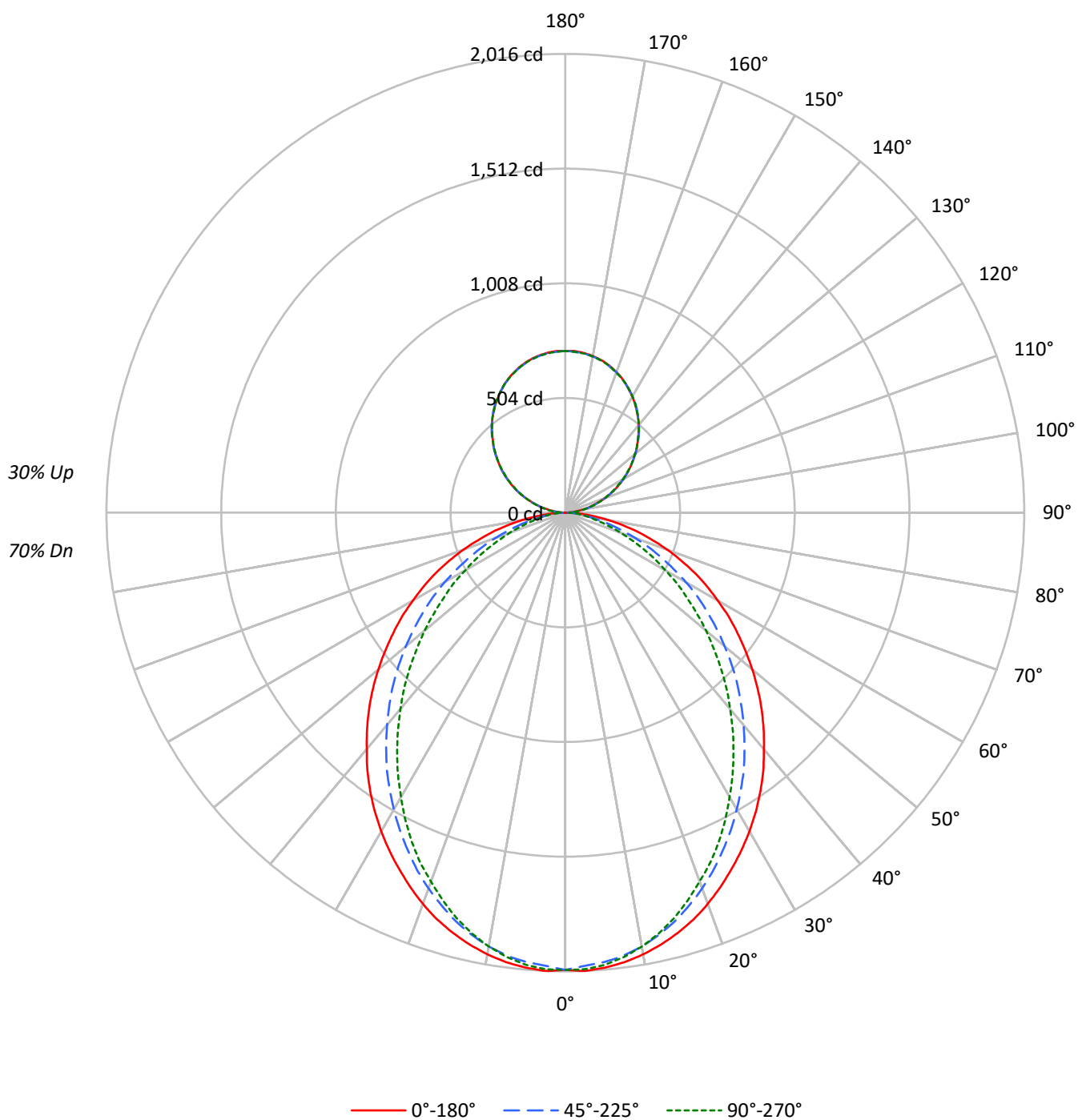
Lumens per Lamp: N/A
Luminaire Lumens: 6617.0 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	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	2.9
10°-20°	527.0	8.0
20°-30°	760.8	11.5
30°-40°	862.2	13.0
40°-50°	832.5	12.6
50°-60°	692.1	10.5
60°-70°	477.7	7.2
70°-80°	241.4	3.6
80°-90°	62.8	0.9
90°-100°	46.3	0.7
100°-110°	138.7	2.1
110°-120°	235.6	3.6
120°-130°	310.8	4.7
130°-140°	349.1	5.3
140°-150°	343.1	5.2
150°-160°	288.6	4.4
160°-170°	192.0	2.9
170°-180°	67.2	1.0
0°-30°	1476.7	22.3
0°-40°	2339.0	35.3
0°-60°	3863.6	58.4
0°-90°	4645.5	70.2
90°-120°	420.7	6.4
90°-150°	1423.7	21.5
90°-180°	1971.0	29.8
0°-180°	6617.0	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°	2	8	12	15	16	7
95°	33	38	42	43	43	36
105°	128	129	131	132	134	136
115°	240	240	238	238	237	236
125°	349	349	348	347	346	311
135°	450	453	453	452	451	348
145°	547	549	550	549	547	342
155°	626	626	626	628	626	288
165°	682	680	679	682	680	192
175°	709	707	706	710	706	67
180°	710	710	710	710	710	

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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°	1.6	7.7	12.1	15.4	16.5
92.5°	14.3	21.4	24.2	25.8	26.4
95°	33.0	37.9	41.8	43.4	43.4
97.5°	52.8	57.2	61.5	63.7	63.7
100°	76.9	79.1	84.1	85.2	85.2
102.5°	102.2	102.8	107.2	108.8	109.4
105°	128.0	128.6	130.8	132.4	134.1
107.5°	155.0	155.5	156.1	158.3	157.7
110°	182.4	183.5	183.0	181.9	183.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	211.0	211.0	209.9	209.9	209.9
115°	239.6	239.6	238.5	237.9	237.4
117.5°	266.5	266.5	266.0	264.3	262.7
120°	293.4	295.6	294.0	291.2	292.3
122.5°	321.5	322.0	321.5	319.8	317.1
125°	348.9	348.9	348.4	347.3	346.2
127.5°	373.7	375.3	374.2	373.1	372.6
130°	400.1	401.7	401.7	400.6	398.4
132.5°	427.0	428.1	427.5	426.4	425.9
135°	450.1	453.4	453.4	452.3	450.6
137.5°	475.9	477.5	478.6	477.0	477.5
140°	501.7	502.8	502.8	502.3	501.7
142.5°	525.3	526.4	525.9	525.9	525.9
145°	546.8	549.0	549.5	549.0	547.3
147.5°	568.8	571.5	571.0	570.4	569.9
150°	588.5	590.7	590.7	590.7	590.2
152.5°	607.2	608.3	608.9	610.5	608.9
155°	626.5	626.5	625.9	628.1	625.9
157.5°	642.9	641.8	641.8	643.5	641.8
160°	657.2	656.7	656.1	657.8	655.0
162.5°	670.4	668.8	668.2	671.5	668.8
165°	682.0	680.3	679.2	682.5	680.3
167.5°	691.3	689.1	689.1	692.4	689.1
170°	699.0	696.3	696.8	700.1	696.3
172.5°	704.5	702.3	702.3	706.1	702.3
175°	709.4	706.7	706.1	710.0	706.1
177.5°	711.6	708.9	708.9	712.7	708.3
180°	710.5	710.5	710.5	710.5	710.5

(END OF REPORT)