

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: P1026370

Luminaire Tested: S124RDIP-B350D810UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026370
REPORT IS A COMBINATION OF REPORTS P999410 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B350D810UB40-4F0-XX-W2A-F
Description: Define 4 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

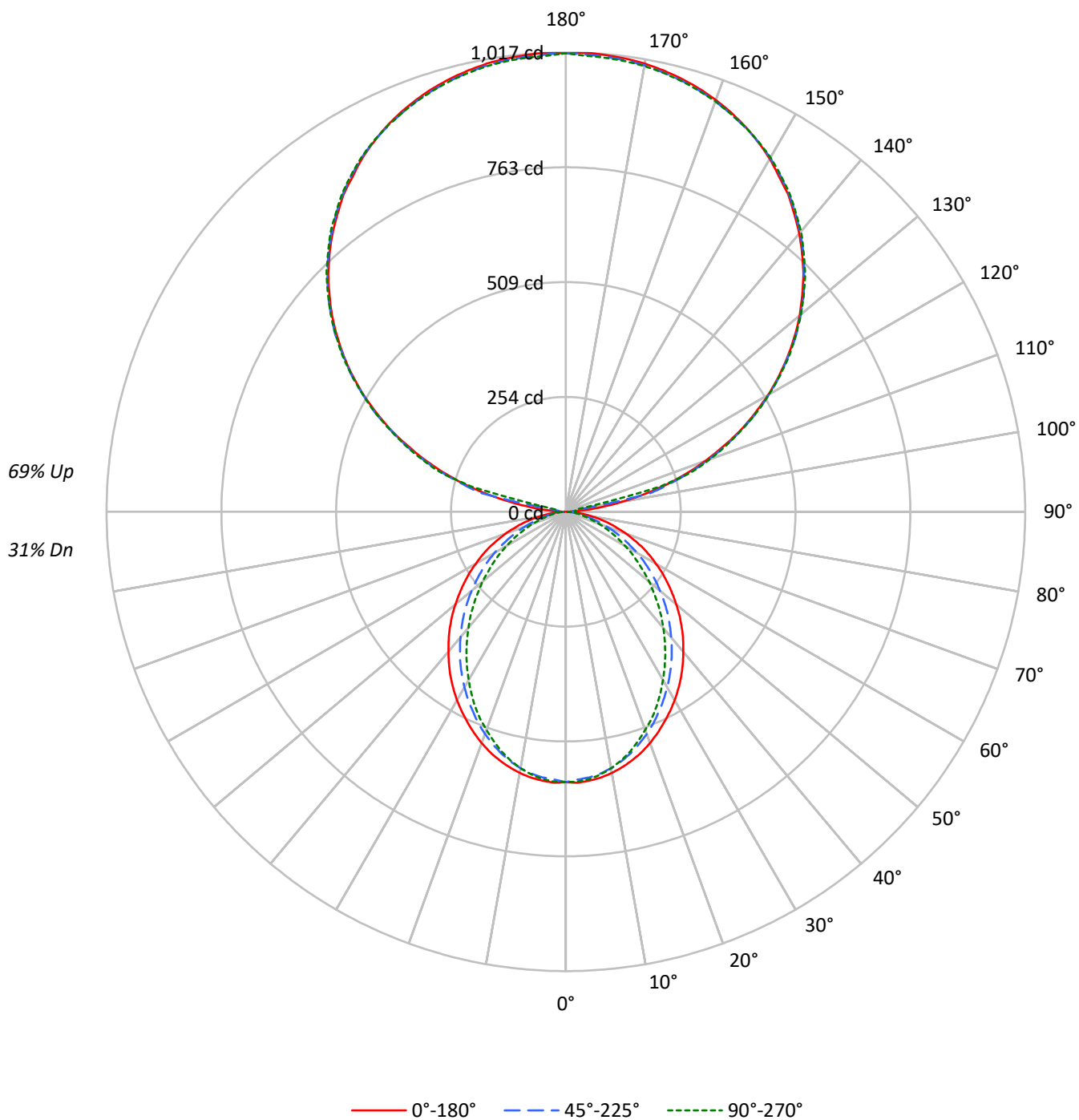
Lumens per Lamp: N/A
Luminaire Lumens: 4526.0 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38
1	94	89	86	82	84	81	77	75	64	62	60	48	47	46	34	33	33
2	85	78	72	68	76	71	66	61	56	53	50	43	40	38	30	29	28
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24
4	71	61	53	48	64	55	49	44	44	39	36	34	31	28	24	22	21
5	65	54	46	41	58	49	42	37	39	34	31	30	27	24	22	20	18
6	60	49	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16
7	56	44	36	31	50	40	33	28	32	27	24	25	21	19	18	16	14
8	51	40	32	27	46	36	30	25	29	24	21	23	19	17	17	14	13
9	48	36	29	24	43	33	27	22	27	22	19	21	17	15	15	13	11
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4880	4880	4880
5°	4881	4736	4737
10°	4840	4586	4531
15°	4773	4400	4291
20°	4686	4188	4016
25°	4578	3959	3747
30°	4471	3726	3445
35°	4354	3489	3150
40°	4214	3235	2847
45°	4084	2981	2547
50°	3935	2705	2242
55°	3775	2423	1928
60°	3597	2122	1617
65°	3425	1777	1318
70°	3179	1415	1008
75°	2867	1030	705
80°	2394	633	506
85°	1797	364	279

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4084 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	1.2
10°-20°	156.9	3.5
20°-30°	226.6	5.0
30°-40°	256.8	5.7
40°-50°	247.9	5.5
50°-60°	206.1	4.6
60°-70°	142.3	3.1
70°-80°	71.9	1.6
80°-90°	20.4	0.4
90°-100°	33.7	0.7
100°-110°	221.9	4.9
110°-120°	423.7	9.4
120°-130°	537.9	11.9
130°-140°	575.4	12.7
140°-150°	538.1	11.9
150°-160°	433.9	9.6
160°-170°	279.8	6.2
170°-180°	96.4	2.1
0°-30°	439.8	9.7
0°-40°	696.6	15.4
0°-60°	1150.6	25.4
0°-90°	1385.1	30.6
90°-120°	679.3	15.0
90°-150°	2330.7	51.5
90°-180°	3141.0	69.4
0°-180°	4526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	598	596	590	595	594	57
15°	569	565	554	553	550	160
25°	515	506	488	480	475	237
35°	445	430	407	392	384	278
45°	363	346	318	296	288	280
55°	275	257	227	203	194	246
65°	187	167	138	118	113	185
75°	100	82	61	50	48	105
85°	25	16	14	13	13	27
90°	2	11	17	21	23	4
95°	42	16	17	21	22	51
105°	228	233	237	244	216	239
115°	427	429	428	430	430	420
125°	600	603	601	604	604	536
135°	744	743	746	748	749	573
145°	858	860	860	861	862	536
155°	941	941	939	942	940	434
165°	992	988	988	994	988	280
175°	1015	1010	1011	1018	1009	97
180°	1015	1015	1015	1015	1015	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	598.5	598.5	598.5	598.5	598.5
2.5°	600.4	598.5	593.5	598.5	598.1
5°	597.6	595.8	590.3	594.9	594.0
7.5°	593.5	591.7	584.8	588.0	586.6
10°	587.1	584.8	576.5	578.4	576.5
12.5°	578.8	576.1	566.0	566.9	564.2
15°	569.2	565.1	553.6	552.7	549.5
17.5°	558.2	552.3	539.0	536.7	532.1
20°	544.9	539.0	523.4	519.7	513.8
22.5°	530.3	523.4	506.4	500.5	495.9
25°	514.7	506.4	487.6	479.8	475.3
27.5°	498.6	488.6	468.8	459.7	453.3
30°	481.7	470.2	448.7	437.2	429.9
32.5°	463.8	450.5	428.1	414.3	407.4
35°	445.0	430.3	407.4	391.8	383.6
37.5°	425.3	410.2	385.0	368.0	359.8
40°	404.2	389.1	363.0	343.7	335.5
42.5°	384.1	368.0	340.5	320.8	312.1
45°	363.0	346.0	318.5	296.1	287.8
47.5°	341.4	324.0	295.6	272.2	263.1
50°	319.4	301.6	272.2	249.3	240.6
52.5°	297.0	279.6	249.3	225.9	216.8
55°	275.0	256.6	226.9	203.0	194.3
57.5°	253.4	234.2	204.9	180.6	174.2
60°	230.1	211.7	182.4	158.6	151.2
62.5°	209.0	189.7	159.5	137.9	132.4
65°	187.0	167.3	137.9	118.2	112.7
67.5°	164.1	145.3	117.8	100.4	94.0
70°	142.5	123.3	97.2	82.0	77.5
72.5°	119.6	102.7	78.4	66.0	61.9
75°	99.5	82.5	61.0	50.4	47.7
77.5°	78.4	63.7	45.4	38.0	37.1
80°	58.2	44.9	31.2	29.8	29.3
82.5°	40.8	28.9	22.5	21.5	21.1
85°	24.7	15.6	14.2	13.3	13.3
87.5°	10.5	6.9	6.4	6.0	6.4
90°	2.3	10.6	16.7	21.3	22.8
92.5°	11.4	9.9	15.9	20.5	20.5
95°	41.8	15.9	16.7	21.3	22.0
97.5°	79.7	96.4	16.7	20.5	21.3
100°	124.5	138.2	33.4	20.5	21.3
102.5°	174.6	183.7	192.8	22.0	22.0
105°	228.5	233.1	236.9	243.7	216.4
107.5°	277.9	280.1	285.5	289.3	292.3
110°	328.0	330.2	334.8	336.3	338.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	376.6	381.1	382.6	381.9	384.9
115°	426.7	428.9	428.2	429.7	429.7
117.5°	471.5	474.5	476.8	476.0	476.0
120°	517.0	520.0	519.3	520.8	519.3
122.5°	559.5	561.0	562.6	563.3	561.8
125°	599.8	602.8	601.3	603.6	604.3
127.5°	638.5	639.2	643.0	642.3	641.5
130°	675.7	676.4	678.7	679.5	679.5
132.5°	709.8	711.4	714.4	715.2	714.4
135°	744.0	743.3	746.3	747.8	749.3
137.5°	774.4	774.4	778.2	779.7	778.9
140°	804.0	805.5	807.0	809.3	810.1
142.5°	830.6	833.6	834.4	835.9	835.9
145°	857.9	860.2	860.2	860.9	862.4
147.5°	879.1	883.7	882.9	883.7	884.5
150°	902.7	905.7	905.0	905.0	905.7
152.5°	922.4	924.7	923.2	924.7	923.9
155°	940.6	941.4	939.1	942.2	939.9
157.5°	956.6	956.6	953.5	957.3	953.5
160°	970.3	968.0	967.2	971.8	967.2
162.5°	982.4	979.4	978.6	983.2	977.8
165°	992.3	988.5	988.5	994.5	987.7
167.5°	1000.6	996.8	996.1	1002.9	995.3
170°	1007.5	1002.9	1003.7	1009.7	1002.1
172.5°	1012.0	1007.5	1008.2	1014.3	1005.9
175°	1015.0	1010.5	1011.2	1018.1	1009.0
177.5°	1017.3	1012.0	1013.5	1019.6	1010.5
180°	1015.0	1015.0	1015.0	1015.0	1015.0

(END OF REPORT)