

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: P1012878

Luminaire Tested: S124DIP-B1020D365UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012878
REPORT IS A COMBINATION OF REPORTS P995253 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1020D365UB2750-4F0-XX-W2A-D_2700K
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

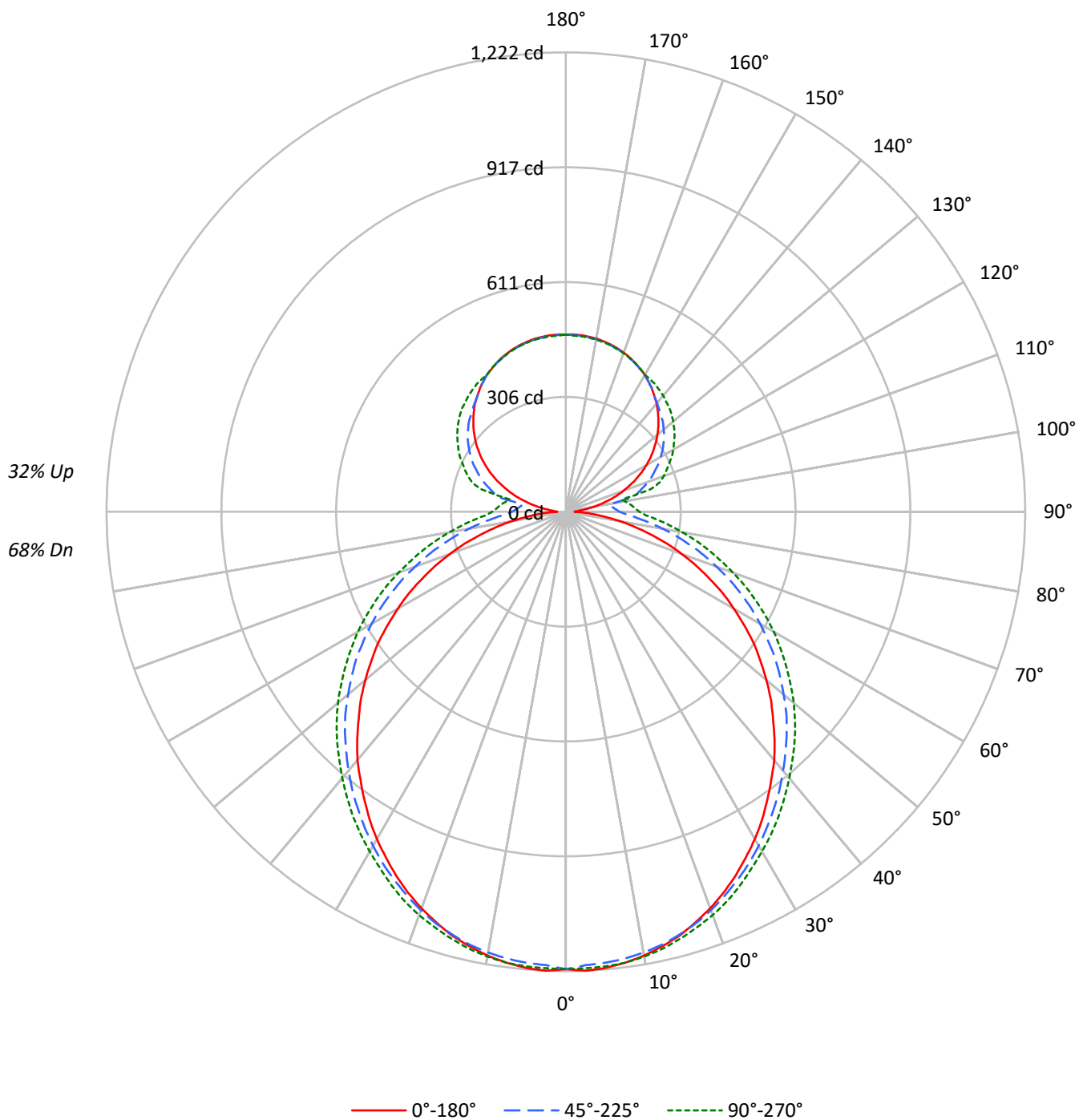
Lumens per Lamp: N/A
Luminaire Lumens: 5607.0 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
Input Voltage (V): 120
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	50	30	10
RCR																				
0	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73			68
1	101	95	91	87	95	90	86	83	80	77	74	71	69	66	62	61	59			55
2	91	83	76	70	85	78	72	67	69	65	60	61	58	54	54	51	49			45
3	83	72	64	58	78	68	61	55	61	55	50	54	49	45	47	44	41			37
4	75	64	55	48	71	60	52	46	54	47	42	48	43	38	42	38	35			32
5	69	57	48	41	65	54	46	40	48	41	36	43	37	33	38	33	30			27
6	64	51	42	36	60	48	40	34	43	37	32	39	33	29	34	30	26			24
7	59	46	37	31	55	43	36	30	39	33	28	35	30	25	31	27	23			21
8	55	42	33	28	51	40	32	27	36	29	25	32	27	23	29	24	21			18
9	51	38	30	25	48	36	29	24	33	26	22	29	24	20	26	22	19			17
10	48	35	27	22	45	33	26	21	30	24	20	27	22	18	24	20	17			15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9921	9921	9921
5°	9948	9663	9680
10°	9884	9472	9445
15°	9791	9259	9181
20°	9654	9027	8923
25°	9499	8772	8646
30°	9333	8519	8363
35°	9144	8261	8111
40°	8992	8012	7851
45°	8768	7780	7620
50°	8577	7515	7378
55°	8379	7260	7098
60°	8072	6942	6834
65°	7734	6601	6517
70°	7324	6209	6151
75°	6752	5776	5802
80°	6108	5332	5436
85°	5254	4887	5140

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8768 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	2.1
10°-20°	330.3	5.9
20°-30°	499.4	8.9
30°-40°	604.2	10.8
40°-50°	638.7	11.4
50°-60°	601.1	10.7
60°-70°	498.8	8.9
70°-80°	350.0	6.2
80°-90°	198.3	3.5
90°-100°	133.1	2.4
100°-110°	190.0	3.4
110°-120°	255.1	4.5
120°-130°	282.6	5.0
130°-140°	281.3	5.0
140°-150°	252.6	4.5
150°-160°	201.4	3.6
160°-170°	129.9	2.3
170°-180°	44.8	0.8
0°-30°	945.0	16.9
0°-40°	1549.1	27.6
0°-60°	2789.0	49.7
0°-90°	3836.2	68.4
90°-120°	578.2	10.3
90°-150°	1394.7	24.9
90°-180°	1771.0	31.6
0°-180°	5607.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1217	1217	1217	1217	1217	
5°	1218	1214	1204	1215	1214	116
15°	1168	1169	1165	1177	1176	329
25°	1068	1076	1080	1095	1097	492
35°	935	951	965	984	988	585
45°	779	805	831	854	861	602
55°	610	639	680	707	715	544
65°	422	466	512	546	557	419
75°	234	285	342	380	392	249
85°	72	129	191	232	245	75
90°	23	81	143	184	196	16
95°	37	70	126	165	178	38
105°	118	148	200	237	235	125
115°	206	220	263	294	303	204
125°	284	284	317	344	353	254
135°	348	348	359	381	390	269
145°	400	399	399	408	414	250
155°	437	437	436	437	436	201
165°	461	459	459	462	458	130
175°	471	469	469	473	468	45
180°	471	471	471	471	471	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1216.6	1216.6	1216.6	1216.6	1216.6
2.5°	1222.1	1218.0	1207.1	1216.6	1215.3
5°	1218.0	1213.9	1204.4	1215.3	1213.9
7.5°	1209.8	1207.1	1198.9	1211.2	1209.8
10°	1198.9	1197.6	1190.7	1203.0	1201.6
12.5°	1183.9	1183.9	1179.8	1190.7	1190.7
15°	1167.6	1168.9	1164.9	1177.1	1175.8
17.5°	1145.8	1149.9	1148.5	1160.8	1159.4
20°	1122.6	1126.7	1128.1	1141.7	1141.7
22.5°	1096.7	1102.2	1104.9	1118.5	1121.3
25°	1068.1	1076.3	1080.4	1095.4	1096.7
27.5°	1036.8	1049.1	1054.5	1068.1	1069.5
30°	1005.5	1016.4	1025.9	1040.9	1043.6
32.5°	971.4	985.0	995.9	1013.6	1016.4
35°	934.6	951.0	964.6	983.7	987.7
37.5°	897.8	916.9	933.3	952.3	956.4
40°	862.4	880.1	899.2	919.6	925.1
42.5°	821.5	842.0	865.1	888.3	892.4
45°	779.3	805.2	831.1	854.2	861.0
47.5°	739.8	765.7	795.6	818.8	827.0
50°	696.2	726.2	756.1	783.4	791.6
52.5°	652.6	682.6	718.0	745.2	753.4
55°	610.4	639.0	679.8	707.1	715.3
57.5°	562.7	598.1	637.6	670.3	677.1
60°	516.4	551.8	596.7	628.1	639.0
62.5°	471.4	510.9	555.9	587.2	598.1
65°	422.3	465.9	512.3	546.3	557.2
67.5°	376.0	422.3	471.4	505.5	516.4
70°	328.3	374.7	426.4	463.2	472.8
72.5°	282.0	329.7	385.6	421.0	431.9
75°	234.3	284.7	342.0	380.1	392.4
77.5°	189.4	242.5	302.5	340.6	354.2
80°	148.5	203.0	262.9	303.8	314.7
82.5°	107.6	164.9	224.8	267.0	279.3
85°	72.2	129.4	190.7	231.6	245.2
87.5°	45.0	100.8	160.8	200.3	212.5
90°	22.9	81.2	142.7	184.3	195.9
92.5°	25.7	72.7	134.1	174.4	185.3
95°	37.1	70.1	126.3	165.2	177.8
97.5°	53.3	100.7	119.5	156.6	169.3
100°	72.8	114.5	119.0	149.8	159.8
102.5°	96.1	130.3	186.2	142.4	153.3
105°	118.4	147.7	199.9	237.1	235.3
107.5°	141.3	165.4	215.6	251.5	262.4
110°	163.1	183.3	233.1	265.1	277.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	184.3	202.8	248.4	278.1	290.4
115°	206.3	219.5	262.8	293.5	303.0
117.5°	227.1	236.6	278.5	306.8	317.7
120°	246.8	252.3	291.5	319.5	329.7
122.5°	266.5	267.2	304.7	332.3	341.2
125°	283.8	283.9	317.2	344.2	352.7
127.5°	301.8	300.8	329.8	354.0	363.2
130°	317.8	316.7	339.6	364.4	372.6
132.5°	333.6	332.9	350.7	374.2	382.0
135°	348.1	347.7	358.7	381.2	390.0
137.5°	362.2	360.9	368.0	389.1	395.7
140°	375.9	375.3	377.3	396.1	403.2
142.5°	387.0	388.4	387.3	403.0	408.4
145°	399.6	399.3	399.3	407.8	414.0
147.5°	409.5	410.2	409.9	411.6	417.4
150°	420.4	420.4	420.1	420.1	420.4
152.5°	428.2	429.3	428.5	429.3	428.9
155°	436.7	437.0	435.9	437.4	436.3
157.5°	444.1	444.1	442.6	444.4	442.6
160°	450.4	449.3	449.0	451.1	449.0
162.5°	456.0	454.6	454.3	456.4	453.9
165°	460.6	458.9	458.9	461.7	458.5
167.5°	464.5	462.7	462.4	465.6	462.0
170°	467.7	465.6	465.9	468.7	465.2
172.5°	469.8	467.7	468.0	470.8	467.0
175°	471.2	469.1	469.4	472.6	468.4
177.5°	472.2	469.8	470.5	473.3	469.1
180°	471.2	471.2	471.2	471.2	471.2

(END OF REPORT)