

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: P1024916

Luminaire Tested: S124DIP-B1020D365UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1024916
REPORT IS A COMBINATION OF REPORTS P995276 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1020D365UB35-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

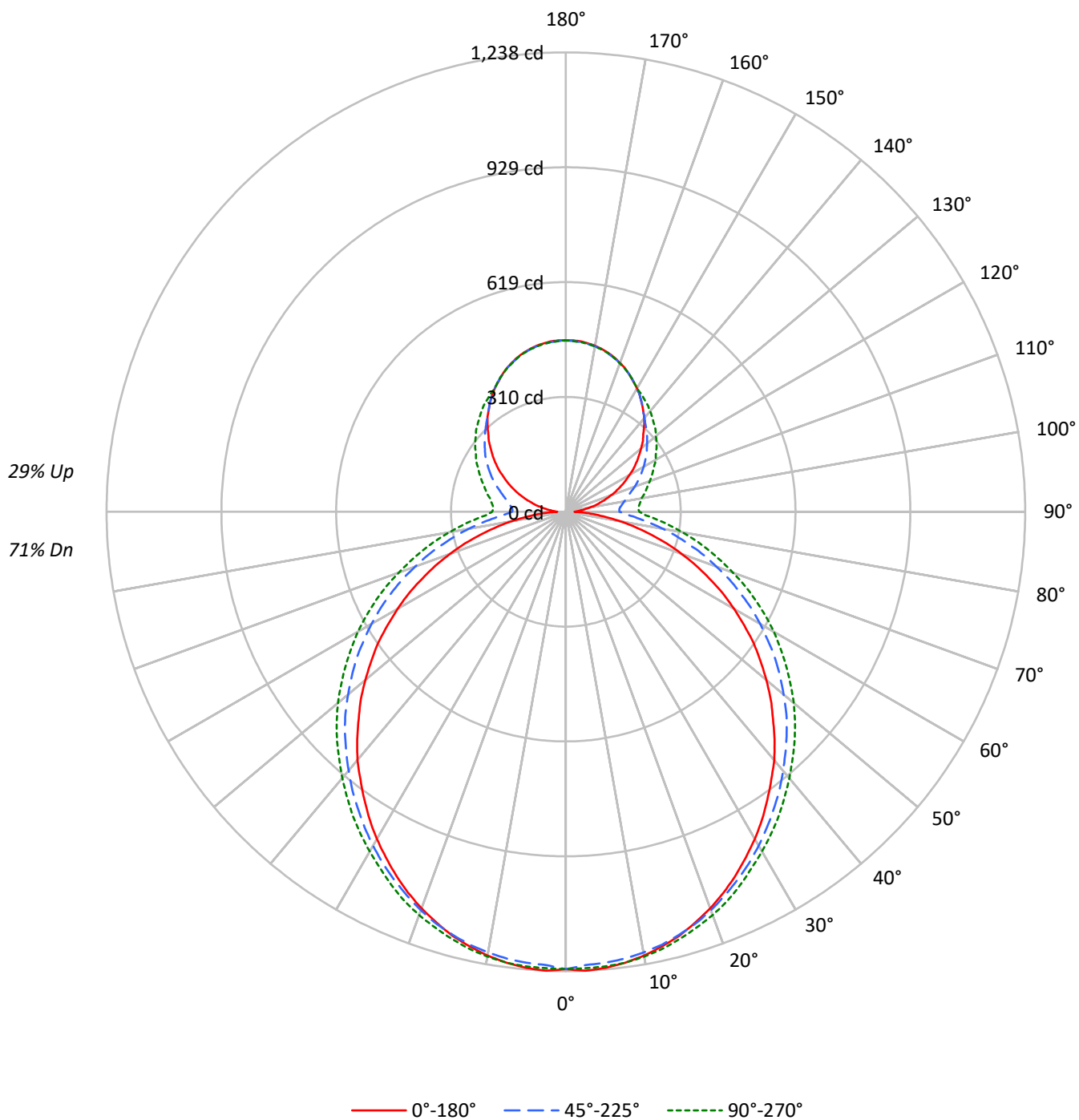
Lumens per Lamp: N/A
Luminaire Lumens: 5484.0 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
Input Voltage (V):
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	85	85	85	75	75	75
1	101	96	91	87	95	91	87	83	81	78	75	72	70	68	64	63	61
2	91	83	76	70	86	79	72	67	70	65	61	63	59	55	56	53	50
3	83	72	64	58	78	69	61	55	62	56	51	55	50	46	49	45	42
4	76	64	55	49	71	61	53	47	54	48	43	49	44	39	43	39	36
5	70	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31
6	64	51	42	36	60	48	40	35	44	37	32	39	34	30	35	31	27
7	59	46	37	31	56	44	36	30	40	33	28	36	30	26	32	27	24
8	55	42	34	28	52	40	32	27	36	30	25	33	27	23	29	25	21
9	51	38	30	25	48	36	29	24	33	27	22	30	25	21	27	23	19
10	48	35	27	22	45	34	26	22	31	24	20	28	23	19	25	21	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10050	10050	10050
5°	10078	9788	9806
10°	10012	9595	9568
15°	9919	9379	9300
20°	9779	9145	9040
25°	9623	8887	8759
30°	9454	8630	8472
35°	9263	8368	8217
40°	9108	8117	7953
45°	8881	7881	7720
50°	8689	7613	7474
55°	8487	7355	7190
60°	8177	7033	6923
65°	7834	6686	6602
70°	7420	6291	6231
75°	6841	5850	5877
80°	6186	5403	5507
85°	5319	4951	5207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8881 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	2.1
10°-20°	334.6	6.1
20°-30°	505.9	9.2
30°-40°	612.0	11.2
40°-50°	647.0	11.8
50°-60°	608.9	11.1
60°-70°	505.3	9.2
70°-80°	354.6	6.5
80°-90°	200.9	3.7
90°-100°	149.1	2.7
100°-110°	178.3	3.3
110°-120°	212.3	3.9
120°-130°	235.2	4.3
130°-140°	241.2	4.4
140°-150°	225.8	4.1
150°-160°	187.5	3.4
160°-170°	124.8	2.3
170°-180°	43.7	0.8
0°-30°	957.3	17.5
0°-40°	1569.3	28.6
0°-60°	2825.3	51.5
0°-90°	3886.1	70.9
90°-120°	539.7	9.8
90°-150°	1241.9	22.6
90°-180°	1598.0	29.1
0°-180°	5484.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1232	1232	1232	1232	1232	
5°	1234	1230	1220	1231	1230	117
15°	1183	1184	1180	1192	1191	333
25°	1082	1090	1094	1110	1111	498
35°	947	963	977	996	1001	593
45°	789	816	842	865	872	610
55°	618	647	689	716	725	551
65°	428	472	519	553	564	424
75°	237	288	346	385	398	252
85°	73	131	193	235	248	76
90°	23	82	144	187	198	17
95°	39	88	147	186	198	37
105°	96	124	176	212	224	102
115°	164	176	220	250	259	162
125°	232	231	265	291	298	207
135°	295	297	307	328	336	229
145°	357	357	357	365	369	223
155°	407	407	407	408	407	187
165°	443	442	441	444	442	125
175°	461	459	459	461	459	44
180°	462	462	462	462	462	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1232.5	1232.5	1232.5	1232.5	1232.5
2.5°	1238.0	1233.9	1222.8	1232.5	1231.1
5°	1233.9	1229.7	1220.0	1231.1	1229.7
7.5°	1225.6	1222.8	1214.5	1227.0	1225.6
10°	1214.5	1213.1	1206.2	1218.7	1217.3
12.5°	1199.3	1199.3	1195.2	1206.2	1206.2
15°	1182.8	1184.2	1180.0	1192.4	1191.1
17.5°	1160.7	1164.8	1163.5	1175.9	1174.5
20°	1137.2	1141.4	1142.8	1156.6	1156.6
22.5°	1111.0	1116.5	1119.3	1133.1	1135.9
25°	1082.0	1090.3	1094.5	1109.6	1111.0
27.5°	1050.3	1062.7	1068.2	1082.0	1083.4
30°	1018.5	1029.6	1039.3	1054.4	1057.2
32.5°	984.0	997.8	1008.9	1026.8	1029.6
35°	946.8	963.3	977.1	996.5	1000.6
37.5°	909.5	928.8	945.4	964.7	968.9
40°	873.6	891.6	910.9	931.6	937.1
42.5°	832.2	852.9	876.4	899.9	904.0
45°	789.4	815.7	841.9	865.4	872.3
47.5°	749.4	775.6	806.0	829.5	837.7
50°	705.3	735.6	766.0	793.6	801.9
52.5°	661.1	691.5	727.3	754.9	763.2
55°	618.3	647.3	688.7	716.3	724.6
57.5°	570.0	605.9	645.9	679.0	685.9
60°	523.1	559.0	604.5	636.2	647.3
62.5°	477.5	517.6	563.1	594.8	605.9
65°	427.8	472.0	518.9	553.4	564.5
67.5°	380.9	427.8	477.5	512.0	523.1
70°	332.6	379.5	432.0	469.2	478.9
72.5°	285.7	334.0	390.6	426.5	437.5
75°	237.4	288.5	346.4	385.1	397.5
77.5°	191.8	245.7	306.4	345.0	358.8
80°	150.4	205.6	266.4	307.8	318.8
82.5°	109.0	167.0	227.7	270.5	282.9
85°	73.1	131.1	193.2	234.6	248.4
87.5°	45.5	102.1	162.9	202.9	215.3
90°	23.2	82.3	144.5	186.7	198.4
92.5°	30.0	82.9	144.1	183.8	195.1
95°	39.3	88.1	147.2	185.5	198.0
97.5°	50.9	93.7	153.2	190.5	202.9
100°	65.2	102.5	159.5	197.5	207.1
102.5°	81.6	112.3	167.6	204.6	216.0
105°	95.6	123.6	176.1	211.7	223.7
107.5°	113.1	136.9	185.6	221.5	230.9
110°	129.5	149.7	197.6	228.6	240.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.8	163.3	208.2	238.5	249.6
115°	164.0	176.4	219.9	249.8	259.2
117.5°	181.5	189.8	230.8	258.6	268.7
120°	197.6	203.1	242.1	267.9	279.7
122.5°	215.8	216.1	253.1	279.6	287.4
125°	232.2	230.8	265.0	290.6	298.1
127.5°	248.3	248.0	274.9	299.0	308.3
130°	264.0	263.8	285.8	310.0	316.9
132.5°	281.5	281.0	297.1	319.9	327.8
135°	295.2	297.4	307.0	328.4	335.6
137.5°	312.0	311.7	317.9	337.5	344.8
140°	328.8	328.1	329.5	347.1	353.6
142.5°	342.8	343.5	341.7	356.9	362.4
145°	356.7	356.7	357.1	365.0	369.4
147.5°	371.0	371.3	371.0	372.0	377.2
150°	383.8	383.8	383.8	383.8	383.5
152.5°	394.6	395.3	395.6	396.7	395.6
155°	407.1	407.1	406.7	408.1	406.7
157.5°	417.8	417.1	417.1	418.1	417.1
160°	427.1	426.7	426.3	427.4	425.6
162.5°	435.6	434.6	434.2	436.3	434.6
165°	443.1	442.0	441.3	443.5	442.0
167.5°	449.2	447.8	447.8	449.9	447.8
170°	454.2	452.4	452.8	454.9	452.4
172.5°	457.8	456.3	456.3	458.8	456.3
175°	461.0	459.2	458.8	461.3	458.8
177.5°	462.4	460.6	460.6	463.1	460.3
180°	461.7	461.7	461.7	461.7	461.7

(END OF REPORT)