

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: P1000574

Luminaire Tested: SA4XXDIP-B1020D1205UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000574
REPORT IS A COMBINATION OF REPORTS P995184 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1020D1205UB27-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

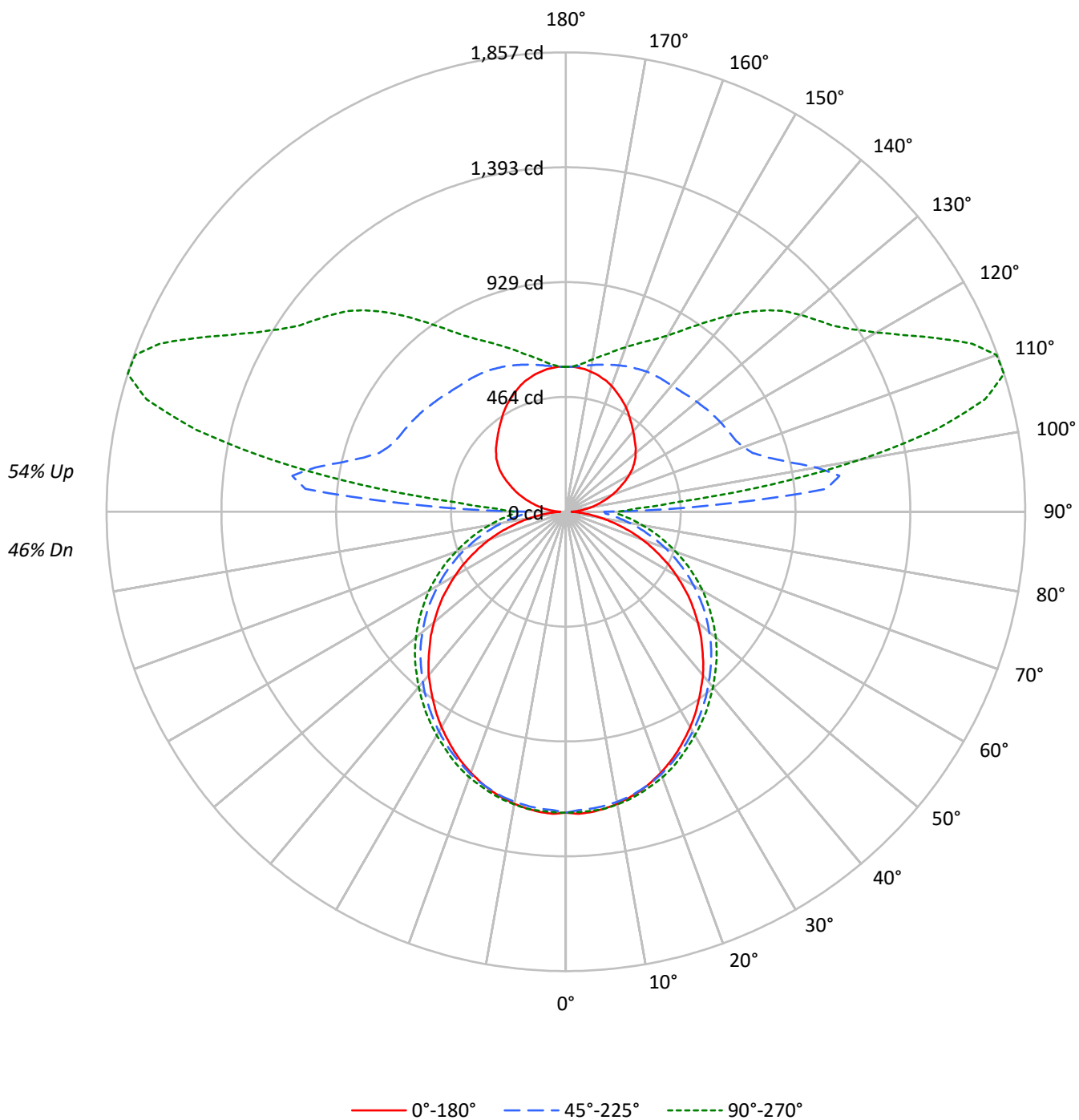
Lumens per Lamp: N/A
Luminaire Lumens: 8426.5 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46		
1	96	91	87	83	88	84	80	77	69	67	64	56	55	53	45	43	42	36		
2	87	79	73	67	79	73	67	62	60	56	53	49	46	43	39	37	35	30		
3	79	69	62	55	72	63	57	51	53	48	44	43	39	36	34	31	29	25		
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	27	25	21		
5	66	54	46	40	60	50	42	37	42	36	32	34	30	26	27	24	21	18		
6	61	48	40	34	55	45	37	32	37	32	27	31	26	23	24	21	19	16		
7	56	44	35	30	51	40	33	28	34	28	24	28	23	20	22	19	17	14		
8	52	39	32	26	47	36	29	25	31	25	21	25	21	18	20	17	15	12		
9	48	36	28	23	44	33	26	22	28	23	19	23	19	16	19	16	13	11		
10	45	33	26	21	41	30	24	19	26	21	17	22	17	14	17	14	12	10		

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	1.4
10°-20°	330.3	3.9
20°-30°	499.4	5.9
30°-40°	604.2	7.2
40°-50°	638.7	7.6
50°-60°	601.1	7.1
60°-70°	498.8	5.9
70°-80°	350.0	4.2
80°-90°	199.6	2.4
90°-100°	552.7	6.6
100°-110°	972.3	11.5
110°-120°	847.5	10.1
120°-130°	695.7	8.3
130°-140°	567.3	6.7
140°-150°	425.2	5.0
150°-160°	296.9	3.5
160°-170°	174.6	2.1
170°-180°	56.8	0.7
0°-30°	945.0	11.2
0°-40°	1549.1	18.4
0°-60°	2789.0	33.1
0°-90°	3837.4	45.5
90°-120°	2372.5	28.2
90°-150°	4060.7	48.2
90°-180°	4589.0	54.5
0°-180°	8426.5	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	86	156	197	210	17
95°	56	182	1057	620	448	56
105°	147	235	845	1750	1755	157
115°	245	318	738	1388	1659	244
125°	336	397	708	1165	1313	300
135°	395	470	676	1011	1152	306
145°	454	518	661	832	920	285
155°	515	555	642	728	759	237
165°	561	578	616	652	662	158
175°	585	586	591	599	596	56
180°	586	586	586	586	586	

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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°	23.0	85.5	155.6	197.4	209.5
92.5°	36.5	156.8	578.0	314.0	280.6
95°	55.7	182.4	1056.7	619.8	448.5
97.5°	79.6	188.3	1115.5	1095.7	834.0
100°	102.5	200.0	1029.1	1452.7	1205.5
102.5°	125.5	215.4	924.4	1672.5	1530.3
105°	147.0	234.6	845.1	1750.1	1754.6
107.5°	173.5	255.8	791.1	1717.4	1857.0
110°	198.5	275.8	763.8	1617.1	1852.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	222.5	297.0	746.6	1496.0	1776.3
115°	245.3	318.0	737.5	1388.0	1658.8
117.5°	270.7	338.7	729.5	1300.4	1544.9
120°	294.6	357.4	722.7	1238.7	1449.3
122.5°	317.6	377.0	714.7	1196.6	1372.0
125°	335.8	396.6	708.1	1165.2	1313.2
127.5°	354.2	417.4	699.0	1133.4	1274.2
130°	367.9	436.1	691.0	1098.3	1238.3
132.5°	382.8	453.4	684.5	1058.1	1200.4
135°	395.3	470.1	676.5	1011.4	1152.0
137.5°	409.1	483.2	671.0	963.1	1096.7
140°	424.0	496.4	665.8	916.0	1038.0
142.5°	438.9	508.5	663.1	873.2	975.9
145°	453.8	518.0	660.8	832.4	919.6
147.5°	471.1	528.4	657.3	797.4	866.7
150°	487.2	538.2	653.9	770.2	822.0
152.5°	500.8	547.4	648.1	748.2	787.4
155°	514.6	555.4	642.4	727.6	758.6
157.5°	528.4	562.9	636.6	708.0	732.2
160°	541.1	569.2	629.7	688.4	708.0
162.5°	552.6	574.4	622.8	669.4	685.0
165°	560.6	577.9	615.9	652.2	661.9
167.5°	569.8	580.8	609.0	637.2	643.5
170°	575.6	583.1	602.1	622.2	626.3
172.5°	581.4	584.8	595.2	609.0	609.0
175°	584.8	586.0	590.6	598.6	596.3
177.5°	587.1	586.0	587.1	591.2	587.1
180°	586.0	586.0	586.0	586.0	586.0

(END OF REPORT)