

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: P1000546

Luminaire Tested: SA4XXDIP-B1020D1035UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000546
REPORT IS A COMBINATION OF REPORTS P995156 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1020D1035UB35-4F0-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

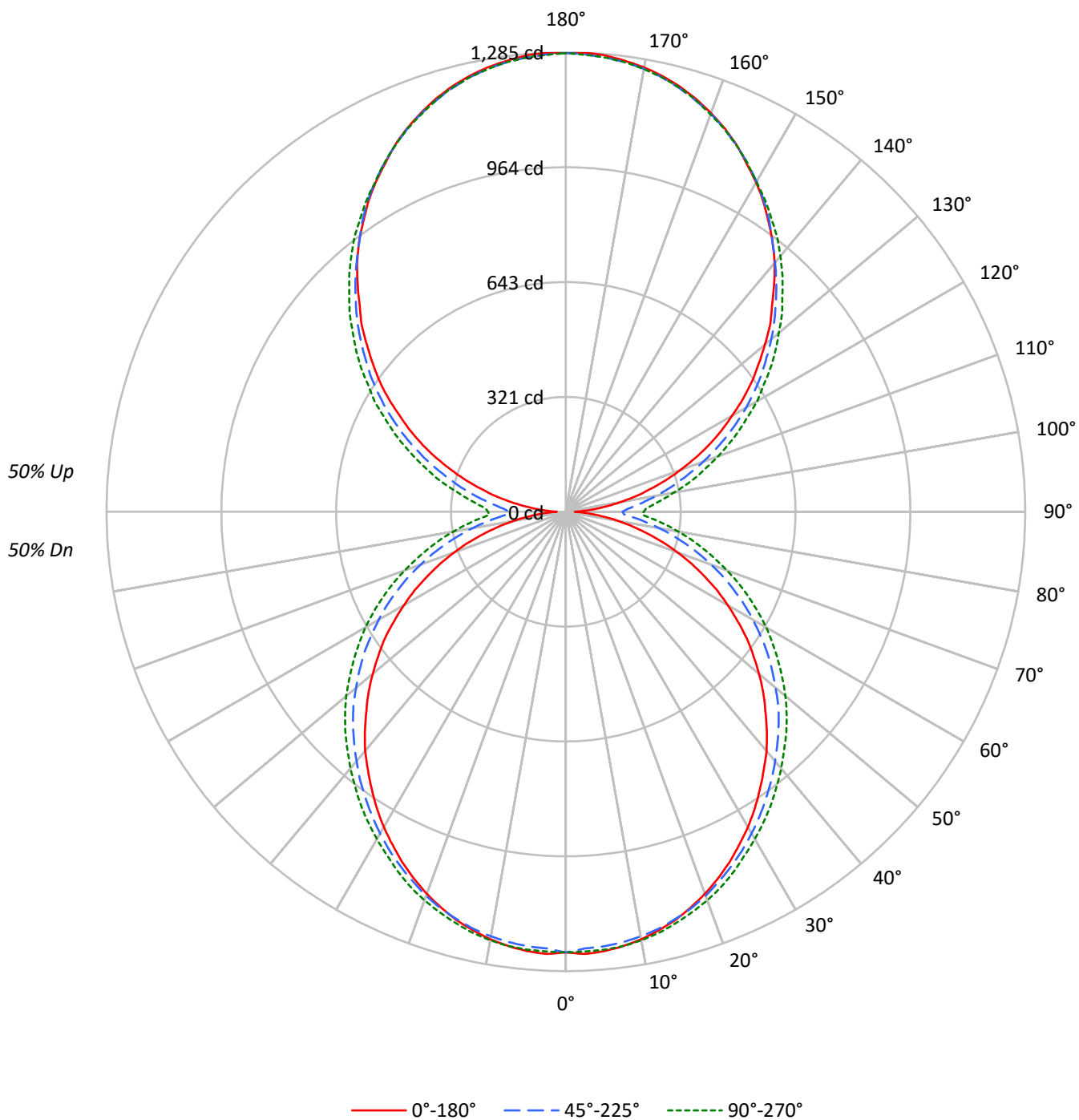
Lumens per Lamp: N/A
Luminaire Lumens: 7765.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	97	92	88	84	89	85	81	78	72	69	66	59	57	56	48	47	45
2	88	80	73	68	80	74	68	63	62	58	54	51	48	46	42	39	37
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	37	34	31
4	73	61	53	47	67	57	50	44	48	42	38	40	36	32	32	29	27
5	67	55	46	40	61	51	43	37	43	37	33	36	31	28	29	26	23
6	61	49	40	34	56	45	38	32	39	33	28	32	28	24	26	23	20
7	57	44	36	30	52	41	34	28	35	29	25	29	25	21	24	20	18
8	53	40	32	26	48	37	30	25	32	26	22	27	22	19	22	19	16
9	49	36	29	24	45	34	27	22	29	23	20	25	20	17	20	17	14
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	15	13

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	1.5
10°-20°	334.6	4.3
20°-30°	505.9	6.5
30°-40°	612.0	7.9
40°-50°	647.0	8.3
50°-60°	608.9	7.8
60°-70°	505.3	6.5
70°-80°	354.6	4.6
80°-90°	202.6	2.6
90°-100°	202.7	2.6
100°-110°	338.7	4.4
110°-120°	484.7	6.2
120°-130°	594.6	7.7
130°-140°	644.8	8.3
140°-150°	622.4	8.0
150°-160°	521.1	6.7
160°-170°	346.7	4.5
170°-180°	121.4	1.6
0°-30°	957.3	12.3
0°-40°	1569.3	20.2
0°-60°	2825.3	36.4
0°-90°	3887.8	50.1
90°-120°	1026.1	13.2
90°-150°	2887.9	37.2
90°-180°	3877.0	49.9
0°-180°	7765.0	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°	25	91	158	204	218	19
95°	77	132	196	236	248	79
105°	244	272	327	365	379	259
115°	441	453	496	525	534	436
125°	636	634	668	692	698	567
135°	816	822	831	851	857	631
145°	989	991	992	1000	1002	619
155°	1131	1131	1130	1134	1130	521
165°	1232	1229	1227	1232	1229	347
175°	1281	1276	1275	1282	1275	122
180°	1283	1283	1283	1283	1283	

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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°	25.1	91.2	158.4	204.5	217.5
92.5°	46.5	107.7	172.1	213.6	225.6
95°	77.4	132.0	195.5	235.7	248.2
97.5°	111.9	159.8	224.3	264.2	276.6
100°	154.1	194.0	256.7	296.0	305.6
102.5°	199.8	231.1	291.5	330.4	342.4
105°	243.6	272.2	327.3	364.8	378.7
107.5°	292.3	316.7	366.0	404.5	413.2
110°	340.5	361.9	409.2	438.9	453.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	390.8	407.3	450.9	481.2	492.3
115°	441.0	453.4	495.6	524.9	533.6
117.5°	489.6	497.9	538.3	564.2	572.4
120°	536.8	544.9	582.0	604.7	617.6
122.5°	587.4	588.4	624.7	649.4	654.0
125°	635.7	634.3	667.8	692.1	698.3
127.5°	680.3	681.9	707.5	730.4	739.0
130°	726.6	728.2	750.2	773.1	777.5
132.5°	775.2	775.9	791.4	812.9	820.2
135°	815.6	821.5	831.1	851.2	856.6
137.5°	862.2	863.8	871.3	889.0	896.9
140°	908.8	909.4	910.8	927.7	933.6
142.5°	950.1	952.1	949.7	964.9	970.4
145°	988.8	991.4	992.4	999.7	1002.2
147.5°	1028.5	1032.1	1031.1	1031.5	1036.0
150°	1064.2	1066.8	1066.8	1066.8	1065.8
152.5°	1096.6	1098.6	1099.6	1102.5	1099.6
155°	1131.3	1131.3	1130.3	1134.3	1130.3
157.5°	1161.1	1159.1	1159.1	1162.1	1159.1
160°	1186.9	1185.9	1184.9	1187.9	1182.9
162.5°	1210.7	1207.7	1206.7	1212.7	1207.7
165°	1231.5	1228.6	1226.6	1232.5	1228.6
167.5°	1248.4	1244.4	1244.4	1250.4	1244.4
170°	1262.3	1257.3	1258.3	1264.3	1257.3
172.5°	1272.2	1268.3	1268.3	1275.2	1268.3
175°	1281.2	1276.2	1275.2	1282.2	1275.2
177.5°	1285.1	1280.2	1280.2	1287.1	1279.2
180°	1283.1	1283.1	1283.1	1283.1	1283.1

(END OF REPORT)