

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: P1000545

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000545
REPORT IS A COMBINATION OF REPORTS P995155 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-D
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

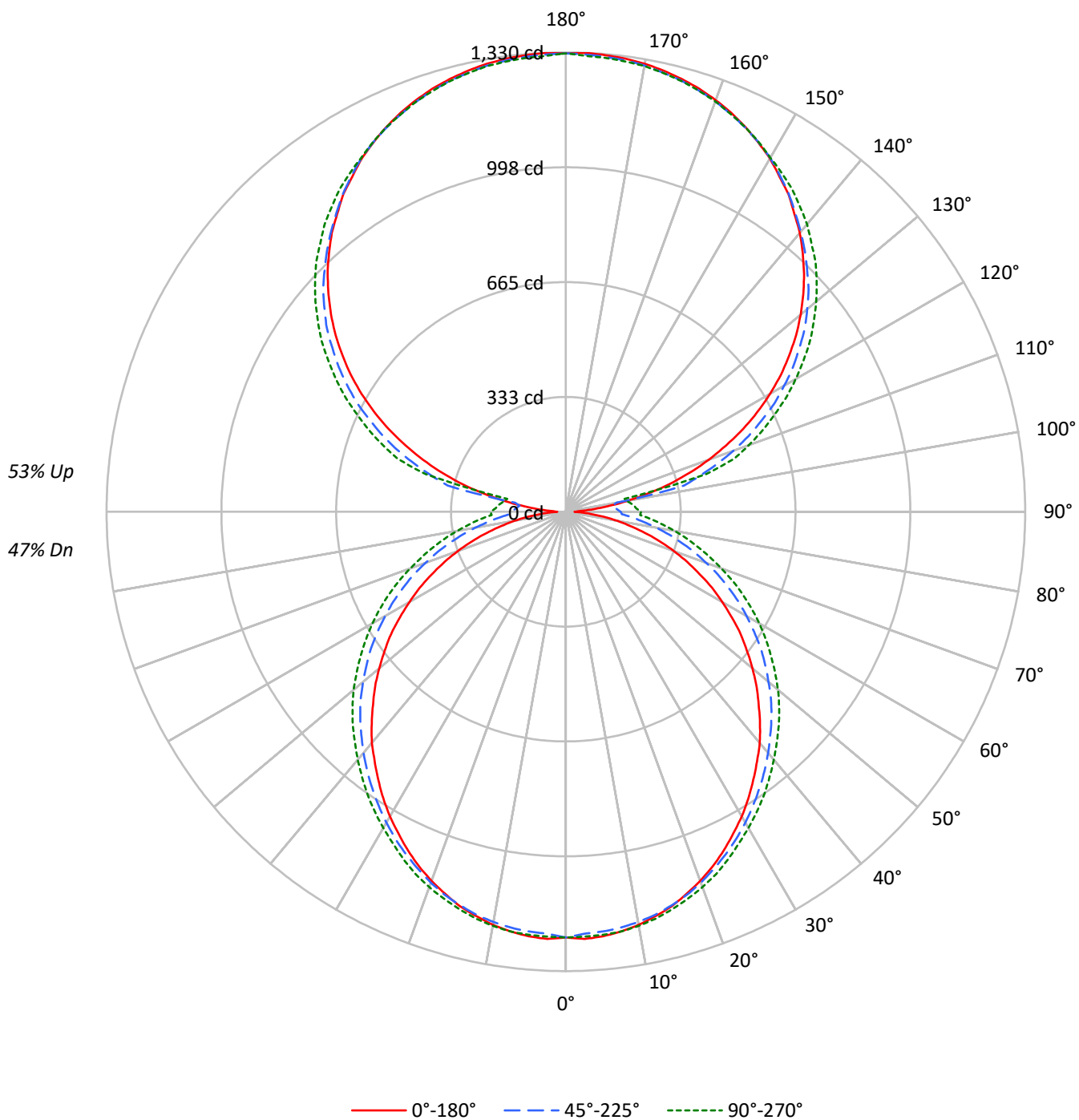
Lumens per Lamp: N/A
Luminaire Lumens: 8311.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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					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	98	98	98	98	82	82	82	67	67	67	53	53	53	47		
1	96	91	87	83	88	84	80	77	70	67	65	57	55	54	45	44	43	37		
2	87	79	73	67	80	73	67	62	61	57	53	50	47	44	39	37	35	31		
3	79	69	62	56	72	64	57	52	53	48	44	44	40	37	35	32	30	25		
4	72	61	53	47	66	56	49	43	47	42	37	39	35	31	31	28	25	22		
5	66	54	46	40	60	50	43	37	42	36	32	35	30	27	28	24	22	19		
6	61	49	40	34	56	45	37	32	38	32	28	31	27	23	25	22	19	16		
7	56	44	36	30	51	40	33	28	34	28	24	28	24	21	23	19	17	14		
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	21	18	15	13		
9	48	36	28	23	44	33	27	22	28	23	19	24	19	16	19	16	14	11		
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	18	15	12	10		

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	1.4
10°-20°	334.6	4.0
20°-30°	505.9	6.1
30°-40°	612.0	7.4
40°-50°	647.0	7.8
50°-60°	608.9	7.3
60°-70°	505.3	6.1
70°-80°	354.6	4.3
80°-90°	202.6	2.4
90°-100°	163.1	2.0
100°-110°	378.2	4.6
110°-120°	613.1	7.4
120°-130°	736.5	8.9
130°-140°	766.7	9.2
140°-150°	706.3	8.5
150°-160°	567.3	6.8
160°-170°	365.8	4.4
170°-180°	126.1	1.5
0°-30°	957.3	11.5
0°-40°	1569.3	18.9
0°-60°	2825.3	34.0
0°-90°	3887.8	46.8
90°-120°	1154.4	13.9
90°-150°	3364.0	40.5
90°-180°	4423.0	53.2
0°-180°	8311.0	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	18
95°	72	84	142	185	199	82
105°	311	345	401	444	420	327
115°	566	582	625	657	667	558
125°	790	792	825	854	863	706
135°	976	974	988	1012	1022	752
145°	1123	1124	1124	1134	1141	702
155°	1230	1231	1228	1232	1229	567
165°	1297	1292	1292	1300	1291	367
175°	1327	1321	1322	1331	1319	126
180°	1327	1327	1327	1327	1327	

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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°	35.6	81.9	149.2	193.8	204.8
95°	72.5	84.3	141.9	185.1	198.6
97.5°	120.8	182.7	135.0	175.9	189.3
100°	178.0	231.7	148.6	169.0	179.6
102.5°	243.5	285.7	350.1	162.7	173.7
105°	311.2	344.7	400.8	444.2	419.5
107.5°	375.7	402.1	457.4	496.9	510.5
110°	439.8	462.2	516.4	550.1	564.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	502.0	524.5	572.0	601.3	616.4
115°	566.1	581.5	624.7	657.0	666.7
117.5°	624.7	636.9	681.3	709.2	720.3
120°	682.8	690.9	730.0	759.6	768.6
122.5°	738.4	740.4	779.7	808.3	815.9
125°	789.6	792.2	824.7	854.0	863.2
127.5°	840.2	839.8	872.4	896.3	904.9
130°	887.5	887.1	912.1	938.0	946.3
132.5°	932.1	932.8	953.3	977.8	985.1
135°	975.5	974.5	988.1	1012.1	1022.4
137.5°	1015.2	1013.8	1024.2	1046.9	1052.8
140°	1053.9	1054.5	1057.9	1078.7	1086.6
142.5°	1087.2	1091.2	1090.8	1108.0	1113.5
145°	1123.0	1124.5	1124.5	1133.8	1141.3
147.5°	1150.8	1155.3	1154.3	1156.7	1163.2
150°	1181.5	1184.1	1183.1	1183.1	1184.1
152.5°	1205.9	1208.9	1206.9	1208.9	1207.9
155°	1229.7	1230.7	1227.8	1231.7	1228.8
157.5°	1250.6	1250.6	1246.6	1251.6	1246.6
160°	1268.5	1265.5	1264.5	1270.4	1264.5
162.5°	1284.3	1280.4	1279.4	1285.3	1278.4
165°	1297.2	1292.3	1292.3	1300.2	1291.3
167.5°	1308.2	1303.2	1302.2	1311.1	1301.2
170°	1317.1	1311.1	1312.1	1320.1	1310.1
172.5°	1323.0	1317.1	1318.1	1326.0	1315.1
175°	1327.0	1321.1	1322.1	1331.0	1319.1
177.5°	1330.0	1323.0	1325.0	1333.0	1321.1
180°	1327.0	1327.0	1327.0	1327.0	1327.0

(END OF REPORT)