

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: P1000844

Luminaire Tested: SA4XXDIP-B1195D1035UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000844
REPORT IS A COMBINATION OF REPORTS P995457 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1195D1035UB35-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

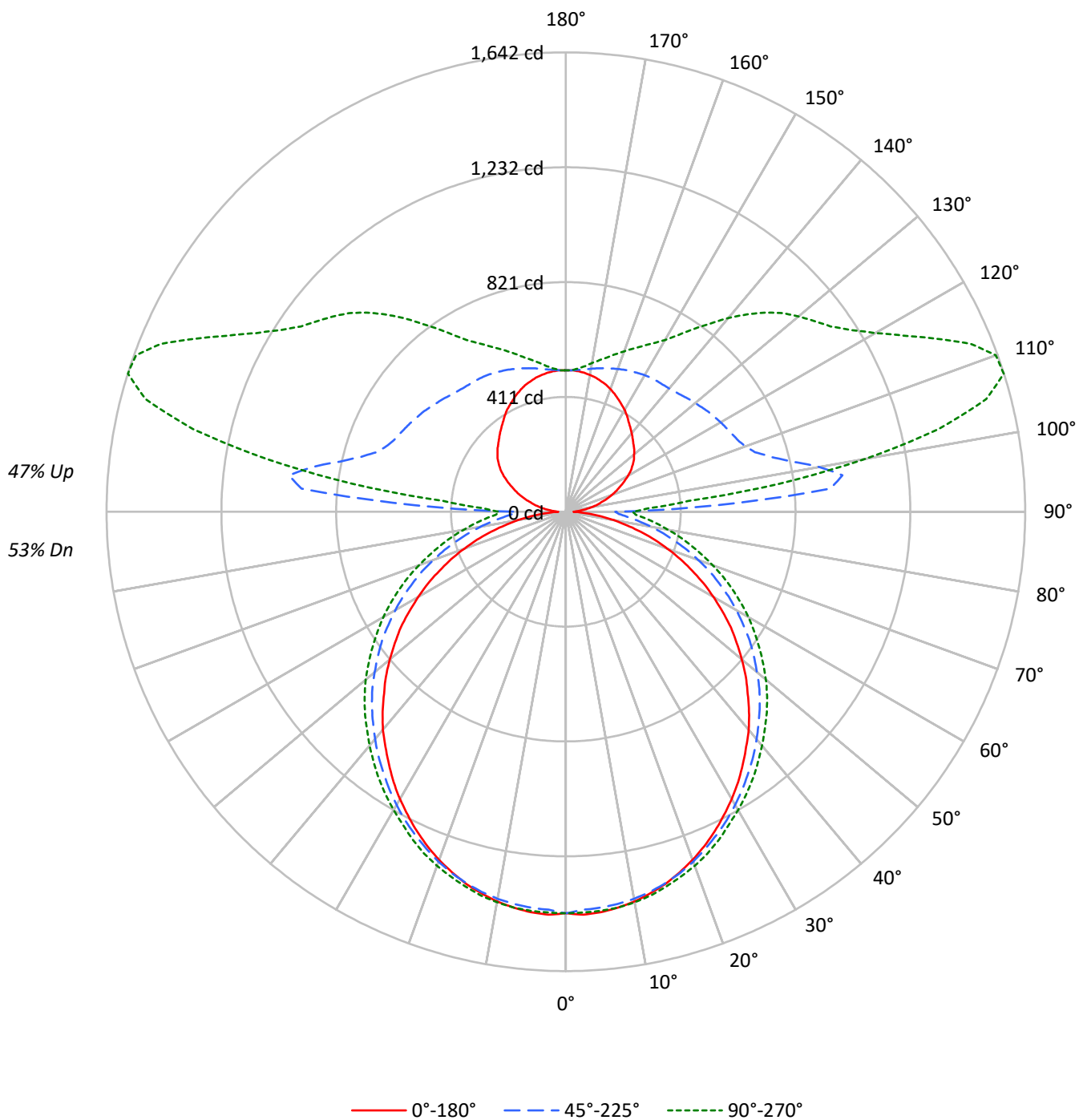
Lumens per Lamp: N/A
Luminaire Lumens: 8582.4 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59
1	97	93	88	84	90	86	82	79	73	70	67	61	59	57	50	49	47
2	88	80	74	68	81	74	68	64	63	59	55	53	50	47	43	41	39
3	80	70	62	56	74	65	58	53	55	50	46	46	42	39	38	35	33
4	73	62	53	47	67	57	50	44	49	43	39	41	37	33	34	31	28
5	67	55	46	40	62	51	43	38	44	38	33	37	32	29	30	27	24
6	62	49	41	35	57	46	38	33	39	33	29	33	28	25	27	24	21
7	57	44	36	30	52	41	34	29	35	30	25	30	25	22	25	21	19
8	53	40	32	27	49	37	30	25	32	26	22	27	23	19	23	19	17
9	49	37	29	24	45	34	27	22	30	24	20	25	21	17	21	18	15
10	46	34	26	21	42	31	25	20	27	22	18	23	19	16	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11702	11702	11702
5°	11735	11398	11418
10°	11659	11173	11142
15°	11550	10922	10829
20°	11388	10649	10526
25°	11206	10347	10199
30°	11008	10049	9865
35°	10786	9744	9569
40°	10607	9452	9261
45°	10343	9176	8989
50°	10116	8864	8702
55°	9883	8564	8372
60°	9521	8190	8061
65°	9124	7787	7687
70°	8641	7325	7256
75°	7965	6812	6843
80°	7206	6291	6412
85°	6200	5766	6064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10343 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	1.6
10°-20°	389.6	4.5
20°-30°	589.1	6.9
30°-40°	712.7	8.3
40°-50°	753.4	8.8
50°-60°	709.1	8.3
60°-70°	588.4	6.9
70°-80°	412.9	4.8
80°-90°	234.7	2.7
90°-100°	513.9	6.0
100°-110°	866.0	10.1
110°-120°	749.3	8.7
120°-130°	610.3	7.1
130°-140°	493.7	5.8
140°-150°	367.6	4.3
150°-160°	256.0	3.0
160°-170°	150.6	1.8
170°-180°	49.0	0.6
0°-30°	1114.7	13.0
0°-40°	1827.4	21.3
0°-60°	3289.9	38.3
0°-90°	4526.0	52.7
90°-120°	2129.2	24.8
90°-150°	3600.8	42.0
90°-180°	4056.0	47.3
0°-180°	8582.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1435	1435	1435	1435	1435	
5°	1437	1432	1421	1434	1432	136
15°	1377	1379	1374	1388	1387	388
25°	1260	1270	1274	1292	1294	580
35°	1102	1122	1138	1160	1165	690
45°	919	950	980	1008	1016	710
55°	720	754	802	834	844	642
65°	498	550	604	644	657	494
75°	276	336	403	448	463	294
85°	85	153	225	273	289	89
90°	27	98	177	226	239	20
95°	54	177	949	584	440	53
105°	131	215	757	1548	1556	140
115°	214	281	656	1227	1463	213
125°	291	343	623	1025	1155	260
135°	342	406	587	883	1007	265
145°	392	447	570	720	797	246
155°	444	479	554	627	654	205
165°	483	498	531	562	571	137
175°	504	505	509	516	514	48
180°	505	505	505	505	505	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1441.6	1436.8	1423.9	1435.1	1433.5
5°	1436.8	1431.9	1420.7	1433.5	1431.9
7.5°	1427.1	1423.9	1414.3	1428.7	1427.1
10°	1414.3	1412.6	1404.6	1419.1	1417.5
12.5°	1396.6	1396.6	1391.8	1404.6	1404.6
15°	1377.3	1378.9	1374.1	1388.5	1386.9
17.5°	1351.6	1356.4	1354.8	1369.3	1367.6
20°	1324.3	1329.1	1330.7	1346.8	1346.8
22.5°	1293.7	1300.1	1303.4	1319.4	1322.6
25°	1260.0	1269.6	1274.4	1292.1	1293.7
27.5°	1223.0	1237.5	1243.9	1260.0	1261.6
30°	1186.0	1198.9	1210.2	1227.8	1231.0
32.5°	1145.9	1161.9	1174.8	1195.7	1198.9
35°	1102.5	1121.8	1137.8	1160.3	1165.2
37.5°	1059.1	1081.6	1100.9	1123.4	1128.2
40°	1017.3	1038.2	1060.7	1084.8	1091.2
42.5°	969.1	993.2	1020.5	1047.8	1052.7
45°	919.3	949.8	980.3	1007.7	1015.7
47.5°	872.7	903.2	938.5	965.9	975.5
50°	821.2	856.6	891.9	924.1	933.7
52.5°	769.8	805.2	846.9	879.1	888.7
55°	720.0	753.7	801.9	834.1	843.7
57.5°	663.7	705.5	752.1	790.7	798.7
60°	609.1	650.9	703.9	740.9	753.7
62.5°	556.1	602.7	655.7	692.7	705.5
65°	498.2	549.6	604.3	644.4	657.3
67.5°	443.6	498.2	556.1	596.2	609.1
70°	387.3	442.0	503.0	546.4	557.7
72.5°	332.7	388.9	454.8	496.6	509.5
75°	276.4	335.9	403.4	448.4	462.8
77.5°	223.4	286.1	356.8	401.8	417.8
80°	175.2	239.5	310.2	358.4	371.2
82.5°	127.0	194.5	265.2	315.0	329.5
85°	85.2	152.7	225.0	273.2	289.3
87.5°	53.0	118.9	189.6	236.2	250.7
90°	26.7	97.9	177.0	225.6	239.4
92.5°	38.0	156.8	538.6	323.0	297.6
95°	53.7	177.2	948.8	583.8	439.9
97.5°	73.9	180.0	997.4	991.6	769.7
100°	93.1	188.6	920.2	1297.2	1087.1
102.5°	113.0	199.9	827.8	1484.1	1364.9
105°	130.6	214.9	757.3	1548.4	1555.8
107.5°	153.5	231.9	708.5	1518.0	1641.5
110°	174.7	247.3	683.2	1429.0	1635.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.8	264.3	666.3	1322.0	1567.2
115°	214.1	280.7	656.2	1226.6	1463.2
117.5°	235.9	297.3	647.2	1148.5	1362.9
120°	256.2	311.7	639.2	1092.8	1277.8
122.5°	276.0	327.1	630.1	1054.4	1208.6
125°	291.3	343.3	622.7	1025.0	1155.3
127.5°	307.2	361.2	612.8	995.0	1119.4
130°	318.5	376.9	603.7	962.7	1086.0
132.5°	331.4	391.8	596.3	925.8	1051.2
135°	341.7	406.2	587.3	883.0	1006.7
137.5°	353.6	417.0	580.8	839.2	956.4
140°	366.5	428.4	575.0	796.4	903.7
142.5°	378.8	438.9	571.8	757.8	848.0
145°	391.7	446.7	569.8	720.4	797.3
147.5°	406.6	455.6	566.8	688.0	749.5
150°	420.5	464.0	563.8	664.1	708.8
152.5°	431.8	472.0	558.9	645.2	679.0
155°	443.7	479.0	553.9	627.3	654.2
157.5°	455.6	485.4	548.9	610.5	631.3
160°	466.6	490.8	543.0	593.6	610.5
162.5°	476.5	495.4	537.0	577.2	590.6
165°	483.4	498.3	531.1	562.3	570.8
167.5°	491.4	500.8	525.1	549.4	554.9
170°	496.3	502.8	519.2	536.6	540.0
172.5°	501.3	504.3	513.2	525.1	525.1
175°	504.3	505.3	509.2	516.2	514.2
177.5°	506.3	505.3	506.3	509.7	506.3
180°	505.3	505.3	505.3	505.3	505.3

(END OF REPORT)