

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: P1001081

Luminaire Tested: SA4XXDIP-B1195D810UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001081
REPORT IS A COMBINATION OF REPORTS P995697 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1195D810UB35-4F0-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

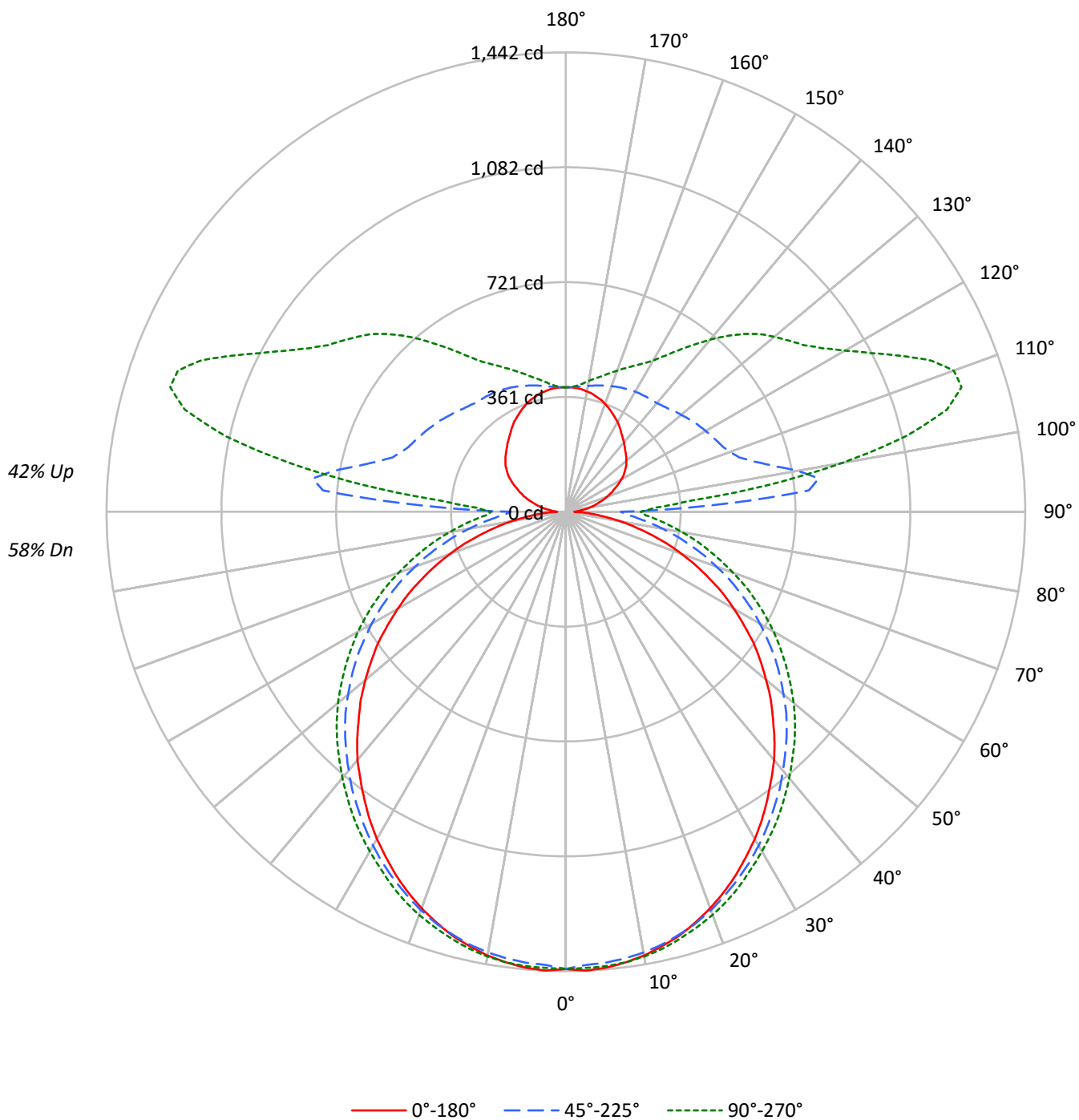
Lumens per Lamp: N/A
Luminaire Lumens: 7743.7 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 82.4
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64
1	99	94	89	85	92	87	83	80	75	73	70	65	62	60	55	53	52
2	89	81	74	69	83	76	70	65	65	61	57	56	53	50	47	45	43
3	81	71	63	57	75	66	59	53	57	52	47	49	45	41	42	38	36
4	74	62	54	48	69	58	51	45	51	45	40	44	39	35	37	33	30
5	68	56	47	41	63	52	44	38	45	39	34	39	34	30	33	29	26
6	62	50	41	35	58	47	39	33	41	34	30	35	30	26	30	26	23
7	58	45	36	31	54	42	34	29	37	31	26	32	27	23	27	23	20
8	54	41	33	27	50	38	31	26	34	27	23	29	24	21	25	21	18
9	50	37	29	24	46	35	28	23	31	25	21	27	22	18	23	19	16
10	47	34	27	22	43	32	25	21	28	23	19	25	20	17	21	18	15

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	1.8
10°-20°	389.6	5.0
20°-30°	589.1	7.6
30°-40°	712.7	9.2
40°-50°	753.4	9.7
50°-60°	709.1	9.2
60°-70°	588.4	7.6
70°-80°	412.9	5.3
80°-90°	234.3	3.0
90°-100°	428.6	5.5
100°-110°	692.5	8.9
110°-120°	594.6	7.7
120°-130°	480.4	6.2
130°-140°	385.3	5.0
140°-150°	284.8	3.7
150°-160°	197.8	2.6
160°-170°	116.4	1.5
170°-180°	37.8	0.5
0°-30°	1114.7	14.4
0°-40°	1827.4	23.6
0°-60°	3289.9	42.5
0°-90°	4525.5	58.4
90°-120°	1715.7	22.2
90°-150°	2866.1	37.0
90°-180°	3218.0	41.6
0°-180°	7743.7	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°	26	96	173	221	235	19
95°	46	154	765	493	385	44
105°	104	177	609	1230	1238	112
115°	168	222	524	973	1158	167
125°	226	266	491	809	912	202
135°	265	315	457	691	789	205
145°	303	345	440	559	620	190
155°	343	370	428	485	506	158
165°	374	385	410	434	441	106
175°	390	390	394	399	397	37
180°	390	390	390	390	390	

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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°	26.5	96.1	172.9	221.0	234.7
92.5°	34.8	139.4	450.2	293.8	277.1
95°	46.2	153.7	764.9	492.7	384.9
97.5°	61.5	154.1	800.6	805.6	637.5
100°	76.0	159.2	738.8	1039.9	880.2
102.5°	91.3	166.5	665.6	1182.2	1093.0
105°	104.2	176.6	609.3	1229.6	1238.3
107.5°	121.9	188.7	569.7	1204.4	1302.3
110°	137.9	199.2	548.7	1133.4	1295.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	153.1	211.2	533.8	1048.5	1240.9
115°	167.6	222.4	524.2	973.0	1158.3
117.5°	184.5	234.0	515.4	910.4	1079.0
120°	199.8	243.8	507.4	865.2	1011.1
122.5°	215.1	254.6	498.6	833.8	955.4
125°	226.5	266.4	491.4	809.2	912.0
127.5°	238.8	280.2	481.9	783.8	882.5
130°	247.2	292.0	473.0	757.0	854.5
132.5°	257.1	303.4	465.8	726.7	825.7
135°	264.8	314.6	457.1	691.4	789.2
137.5°	274.0	322.6	450.6	655.6	748.2
140°	283.9	331.4	445.0	620.8	705.5
142.5°	293.1	339.5	441.8	589.5	660.7
145°	303.0	345.2	440.3	558.8	619.7
147.5°	314.5	352.0	438.0	532.0	581.0
150°	325.3	358.6	435.7	513.1	547.6
152.5°	333.7	364.7	431.8	498.6	524.6
155°	342.9	370.0	428.0	484.8	505.5
157.5°	352.1	375.1	424.2	471.8	487.8
160°	360.5	379.3	419.6	458.6	471.7
162.5°	368.2	382.8	415.0	446.0	456.4
165°	373.5	385.0	410.4	434.5	441.0
167.5°	379.7	387.0	405.8	424.6	428.8
170°	383.5	388.5	401.1	414.6	417.3
172.5°	387.3	389.6	396.5	405.8	405.8
175°	389.6	390.4	393.5	398.8	397.3
177.5°	391.2	390.4	391.2	393.8	391.2
180°	390.4	390.4	390.4	390.4	390.4

(END OF REPORT)