

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: P1000950

Luminaire Tested: SA4XXDIP-B1195D365UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000950
REPORT IS A COMBINATION OF REPORTS P995566 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1195D365UB30-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

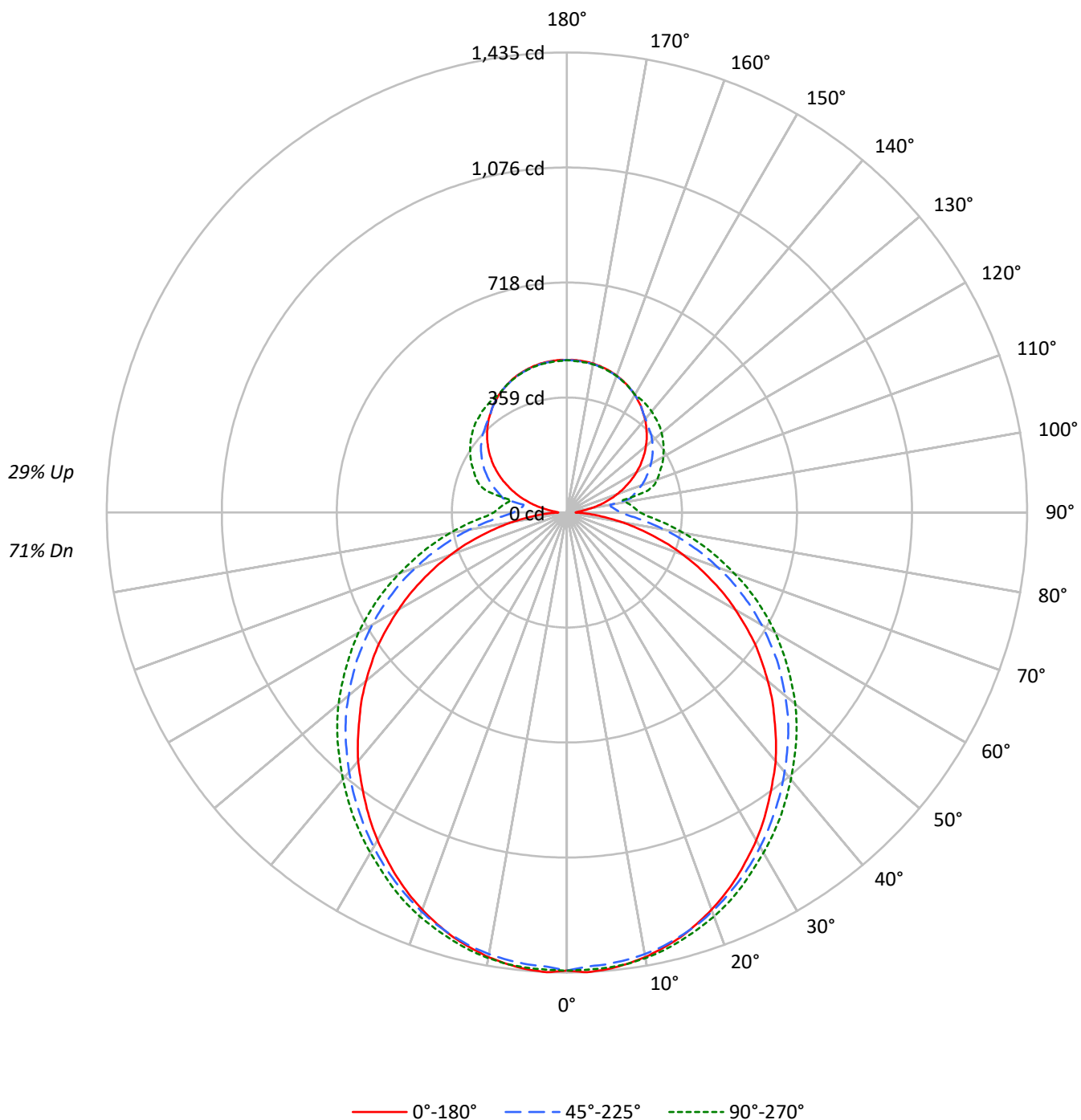
Lumens per Lamp: N/A
Luminaire Lumens: 6344.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75
1	101	96	91	87	95	91	87	83	81	78	75	73	70	68	64	63	61
2	91	83	76	70	86	79	72	67	70	65	61	63	59	56	56	53	50
3	83	73	64	58	78	69	61	55	62	56	51	55	50	46	49	45	42
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	44	39	36
5	70	57	48	41	65	54	46	40	49	42	37	44	38	34	39	35	31
6	64	51	42	36	60	49	40	35	44	37	32	39	34	30	35	31	27
7	59	46	37	31	56	44	36	30	40	33	28	36	30	26	32	28	24
8	55	42	34	28	52	40	32	27	36	30	25	33	27	23	30	25	21
9	51	38	30	25	48	37	29	24	33	27	22	30	25	21	27	23	19
10	48	35	27	22	45	34	26	22	31	24	20	28	23	19	25	21	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11653	11653	11653
5°	11685	11349	11370
10°	11609	11126	11094
15°	11501	10875	10783
20°	11339	10603	10481
25°	11158	10303	10156
30°	10962	10006	9823
35°	10739	9702	9528
40°	10561	9411	9221
45°	10298	9137	8950
50°	10073	8827	8665
55°	9841	8527	8336
60°	9481	8155	8027
65°	9085	7753	7654
70°	8605	7294	7225
75°	7931	6784	6815
80°	7173	6263	6384
85°	6171	5740	6037

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10298 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	2.1
10°-20°	387.9	6.1
20°-30°	586.6	9.2
30°-40°	709.6	11.2
40°-50°	750.2	11.8
50°-60°	706.0	11.1
60°-70°	585.9	9.2
70°-80°	411.1	6.5
80°-90°	232.7	3.7
90°-100°	153.8	2.4
100°-110°	206.1	3.2
110°-120°	267.0	4.2
120°-130°	290.5	4.6
130°-140°	286.2	4.5
140°-150°	255.3	4.0
150°-160°	203.2	3.2
160°-170°	131.1	2.1
170°-180°	45.2	0.7
0°-30°	1109.9	17.5
0°-40°	1819.6	28.7
0°-60°	3275.8	51.6
0°-90°	4505.6	71.0
90°-120°	626.8	9.9
90°-150°	1458.9	23.0
90°-180°	1838.0	29.0
0°-180°	6344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1429	1429	1429	1429	1429	
5°	1431	1426	1415	1427	1426	136
15°	1371	1373	1368	1383	1381	386
25°	1255	1264	1269	1287	1288	578
35°	1098	1117	1133	1155	1160	687
45°	915	946	976	1003	1011	707
55°	717	750	798	830	840	639
65°	496	547	602	642	654	492
75°	275	334	402	446	461	292
85°	85	152	224	272	288	88
90°	27	95	166	215	228	19
95°	40	81	147	192	207	41
105°	121	156	216	260	260	128
115°	209	225	276	312	323	207
125°	287	287	326	358	368	257
135°	352	351	364	390	400	271
145°	403	403	403	413	420	252
155°	440	441	440	441	440	203
165°	465	463	463	466	463	131
175°	475	473	474	477	472	45
180°	475	475	475	475	475	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1429.0	1429.0	1429.0	1429.0	1429.0
2.5°	1435.4	1430.6	1417.8	1429.0	1427.4
5°	1430.6	1425.8	1414.6	1427.4	1425.8
7.5°	1421.0	1417.8	1408.2	1422.6	1421.0
10°	1408.2	1406.6	1398.6	1413.0	1411.4
12.5°	1390.6	1390.6	1385.8	1398.6	1398.6
15°	1371.4	1373.0	1368.2	1382.6	1381.0
17.5°	1345.8	1350.6	1349.0	1363.4	1361.8
20°	1318.6	1323.4	1325.0	1341.0	1341.0
22.5°	1288.2	1294.6	1297.8	1313.8	1317.0
25°	1254.6	1264.2	1269.0	1286.6	1288.2
27.5°	1217.8	1232.2	1238.6	1254.6	1256.2
30°	1181.0	1193.8	1205.0	1222.6	1225.8
32.5°	1140.9	1157.0	1169.8	1190.6	1193.8
35°	1097.7	1116.9	1132.9	1155.4	1160.2
37.5°	1054.5	1076.9	1096.1	1118.5	1123.3
40°	1012.9	1033.7	1056.1	1080.1	1086.5
42.5°	964.9	988.9	1016.1	1043.3	1048.1
45°	915.3	945.7	976.1	1003.3	1011.3
47.5°	868.9	899.3	934.5	961.7	971.3
50°	817.7	852.9	888.1	920.1	929.7
52.5°	766.5	801.7	843.3	875.3	884.9
55°	716.9	750.5	798.5	830.5	840.1
57.5°	660.9	702.5	748.9	787.3	795.3
60°	606.5	648.1	700.9	737.7	750.5
62.5°	553.7	600.1	652.9	689.7	702.5
65°	496.1	547.3	601.7	641.7	654.5
67.5°	441.7	496.1	553.7	593.7	606.5
70°	385.7	440.1	500.9	544.1	555.3
72.5°	331.2	387.3	452.9	494.5	507.3
75°	275.2	334.4	401.7	446.5	460.9
77.5°	222.4	284.8	355.2	400.1	416.1
80°	174.4	238.4	308.8	356.8	369.6
82.5°	126.4	193.6	264.0	313.6	328.0
85°	84.8	152.0	224.0	272.0	288.0
87.5°	52.8	118.4	188.8	235.2	249.6
90°	26.7	94.6	166.2	214.8	228.3
92.5°	29.3	84.6	156.3	203.2	216.0
95°	40.4	81.1	147.0	192.4	207.1
97.5°	56.5	110.8	139.0	182.4	197.2
100°	75.9	123.9	137.2	174.4	186.0
102.5°	99.4	138.8	203.9	165.5	178.3
105°	121.4	155.6	216.5	259.7	259.7
107.5°	144.5	172.8	231.3	273.1	285.7
110°	166.4	189.9	248.0	285.5	299.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	187.6	208.9	262.4	297.2	311.5
115°	209.4	224.9	275.7	311.6	322.8
117.5°	230.4	241.4	290.5	323.7	336.5
120°	250.1	256.4	302.4	335.1	347.2
122.5°	270.1	270.8	314.7	347.0	357.5
125°	287.3	287.1	326.4	357.9	367.8
127.5°	305.4	304.2	338.0	366.4	377.3
130°	321.3	320.0	346.7	375.8	385.4
132.5°	337.3	336.4	357.0	384.5	393.8
135°	351.7	351.3	363.9	390.2	400.5
137.5°	365.9	364.3	372.5	397.2	404.8
140°	379.7	378.9	381.2	403.0	411.4
142.5°	390.6	392.0	390.8	409.1	415.5
145°	403.4	402.9	402.9	412.8	419.9
147.5°	413.3	413.9	413.5	415.5	422.2
150°	424.4	424.2	423.8	423.8	424.2
152.5°	432.0	433.1	432.4	433.1	432.7
155°	440.5	440.9	439.8	441.3	440.2
157.5°	448.0	448.0	446.6	448.4	446.6
160°	454.4	453.3	453.0	455.1	453.0
162.5°	460.1	458.7	458.3	460.5	458.0
165°	464.7	462.9	462.9	465.8	462.6
167.5°	468.6	466.9	466.5	469.7	466.1
170°	471.8	469.7	470.1	472.9	469.3
172.5°	474.0	471.8	472.2	475.0	471.1
175°	475.4	473.3	473.6	476.8	472.5
177.5°	476.5	474.0	474.7	477.5	473.3
180°	475.4	475.4	475.4	475.4	475.4

(END OF REPORT)