

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: P1025222

Luminaire Tested: S124DIP-B1195D810UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025222
REPORT IS A COMBINATION OF REPORTS P995687 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1195D810UB30-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

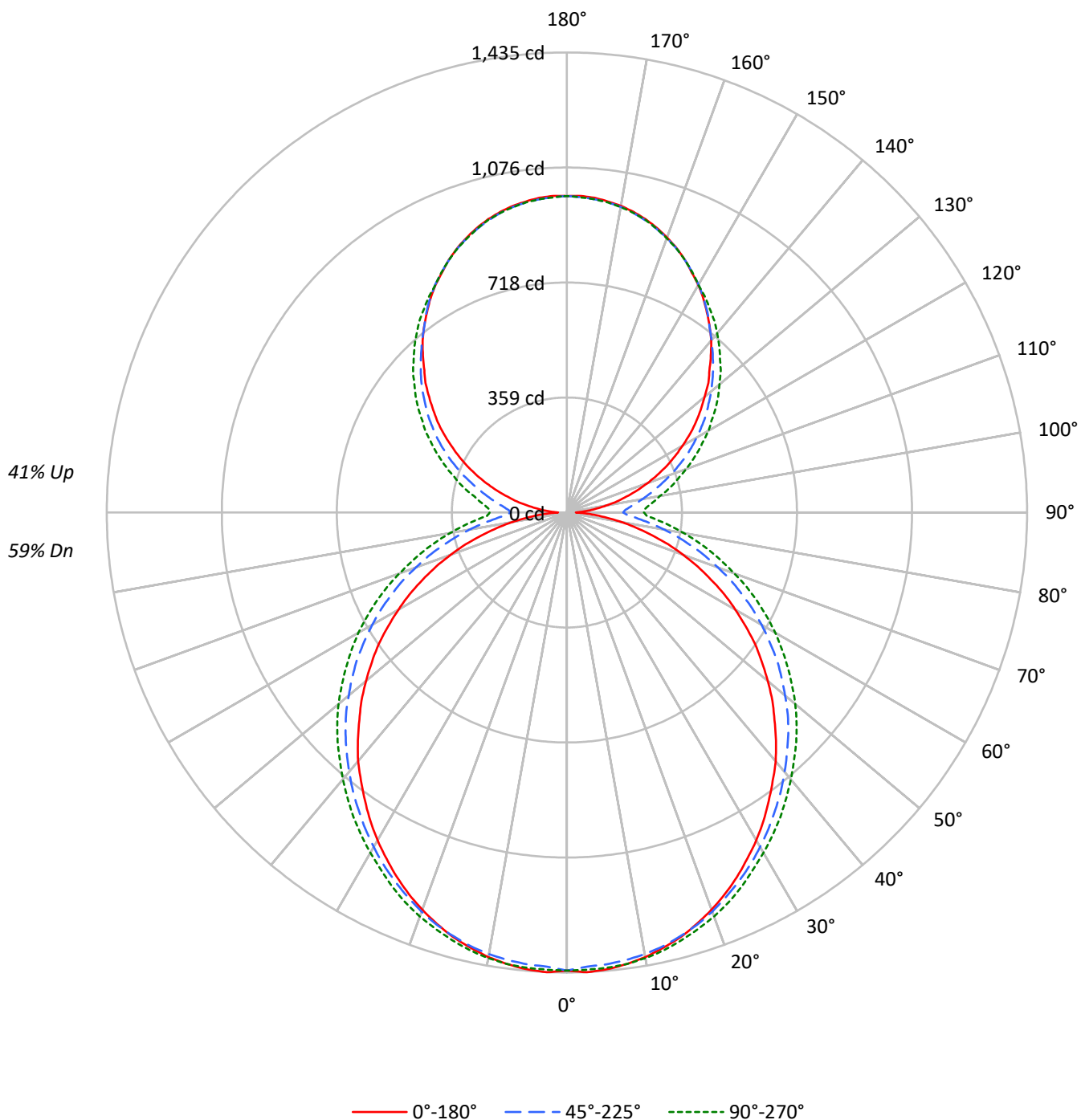
Lumens per Lamp: N/A
Luminaire Lumens: 7613.0 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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
RCR																	
0	109	109	109	109	102	102	102	102	88	88	88		76	76	76		65
1	99	94	89	85	92	88	84	80	76	73	70		65	63	61		55
2	89	81	74	69	83	76	70	65	66	61	57		56	53	50		48
3	81	71	63	57	75	66	59	54	58	52	48		49	45	42		42
4	74	63	54	48	69	59	51	45	51	45	40		44	39	35		37
5	68	56	47	41	63	52	44	39	45	39	34		39	34	30		33
6	63	50	41	35	58	47	39	33	41	35	30		35	30	27		30
7	58	45	37	31	54	42	35	29	37	31	26		32	27	23		28
8	54	41	33	27	50	38	31	26	34	28	23		29	24	21		25
9	50	37	29	24	46	35	28	23	31	25	21		27	22	19		23
10	47	34	27	22	43	32	25	21	28	23	19		25	20	17		22

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	1.8
10°-20°	387.9	5.1
20°-30°	586.6	7.7
30°-40°	709.6	9.3
40°-50°	750.2	9.9
50°-60°	706.0	9.3
60°-70°	585.9	7.7
70°-80°	411.1	5.4
80°-90°	233.9	3.1
90°-100°	202.3	2.7
100°-110°	294.9	3.9
110°-120°	396.0	5.2
120°-130°	470.4	6.2
130°-140°	501.7	6.6
140°-150°	480.0	6.3
150°-160°	400.9	5.3
160°-170°	266.7	3.5
170°-180°	93.4	1.2
0°-30°	1109.9	14.6
0°-40°	1819.6	23.9
0°-60°	3275.8	43.0
0°-90°	4506.7	59.2
90°-120°	893.2	11.7
90°-150°	2345.2	30.8
90°-180°	3106.0	40.8
0°-180°	7613.0	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°	28	100	175	226	240	21
95°	67	126	197	243	257	66
105°	192	225	287	330	345	205
115°	342	357	406	441	451	338
125°	491	490	529	558	566	438
135°	628	633	644	668	676	487
145°	761	763	763	772	776	477
155°	870	870	870	873	870	401
165°	947	945	944	948	945	267
175°	986	982	981	986	981	94
180°	987	987	987	987	987	

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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°	27.9	100.3	175.2	226.2	240.5
92.5°	43.8	109.8	182.4	229.5	243.0
95°	66.6	126.3	197.2	242.7	257.1
97.5°	92.5	145.0	216.7	261.4	275.8
100°	124.5	169.1	238.4	283.1	294.3
102.5°	159.6	195.6	262.5	306.4	319.9
105°	192.3	225.0	287.3	329.6	344.7
107.5°	229.7	257.7	314.4	357.5	367.9
110°	266.3	290.2	345.4	380.7	395.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	304.4	323.6	374.8	410.0	422.8
115°	342.5	356.9	406.5	441.0	451.4
117.5°	379.9	389.5	436.7	468.0	478.5
120°	415.7	423.5	467.6	495.8	510.1
122.5°	454.6	455.4	497.8	527.5	534.9
125°	491.2	489.6	528.8	557.7	565.8
127.5°	525.5	526.2	556.7	584.0	594.4
130°	560.6	561.3	586.9	614.1	620.7
132.5°	598.0	597.9	616.4	642.0	650.9
135°	628.5	633.0	644.2	668.3	675.6
137.5°	664.3	665.0	672.9	694.7	703.4
140°	700.2	700.1	701.7	721.8	729.0
142.5°	731.4	733.0	730.6	748.2	754.6
145°	761.2	762.7	763.4	772.3	776.4
147.5°	791.8	794.0	793.2	794.0	799.7
150°	819.2	820.7	820.7	820.7	819.9
152.5°	843.6	845.1	845.9	848.2	845.9
155°	870.3	870.3	869.5	872.6	869.5
157.5°	893.2	891.7	891.7	894.0	891.7
160°	913.1	912.3	911.5	913.8	910.0
162.5°	931.4	929.1	928.3	932.9	929.1
165°	947.4	945.1	943.6	948.2	945.1
167.5°	960.4	957.3	957.3	961.9	957.3
170°	971.1	967.3	968.0	972.6	967.3
172.5°	978.7	975.7	975.7	981.0	975.7
175°	985.6	981.8	981.0	986.4	981.0
177.5°	988.6	984.8	984.8	990.2	984.1
180°	987.1	987.1	987.1	987.1	987.1

(END OF REPORT)