

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: P1025042

Luminaire Tested: S124DIP-B1195D1035UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025042
REPORT IS A COMBINATION OF REPORTS P995447 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1195D1035UB30-4F0-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

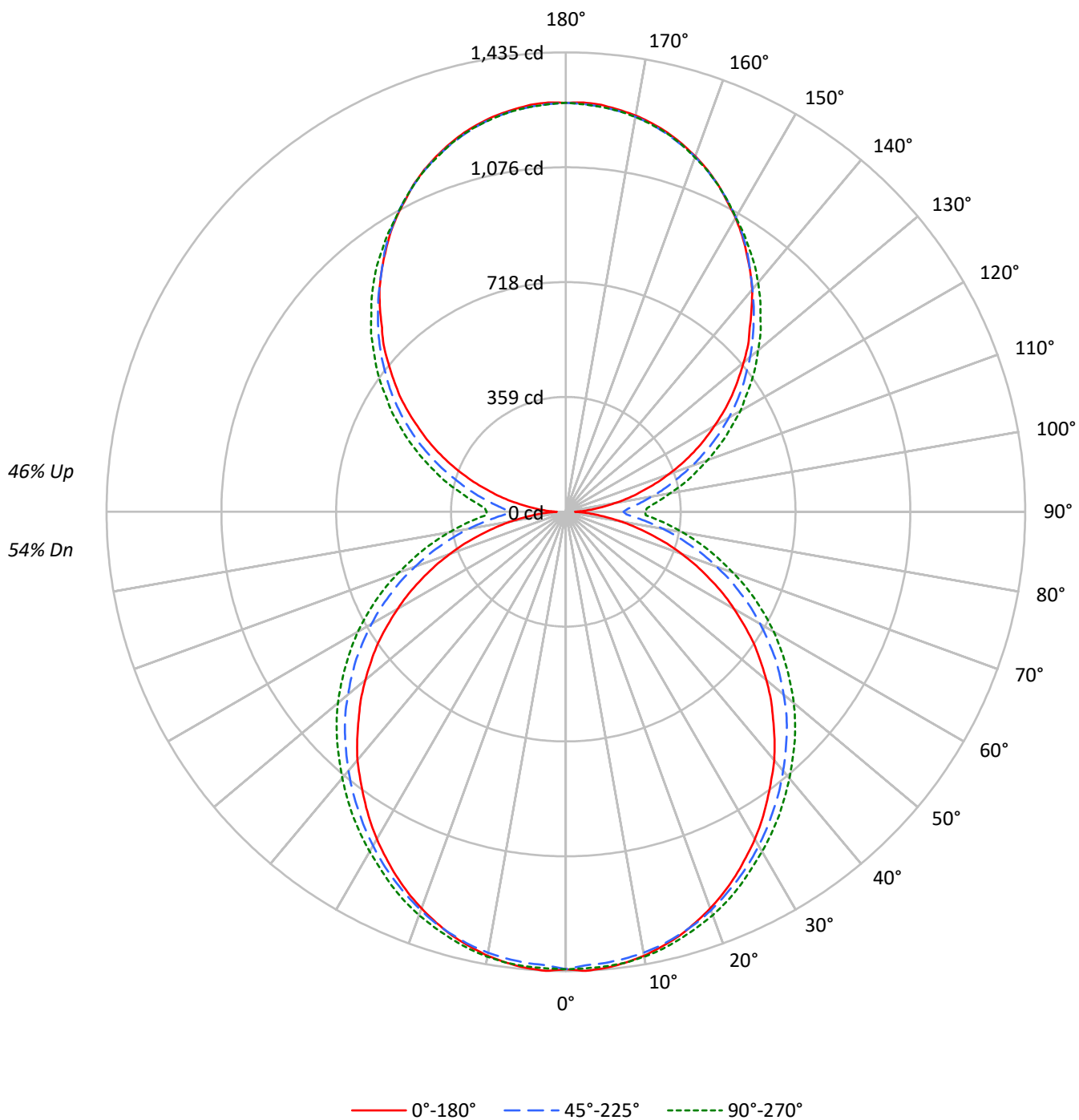
Lumens per Lamp: N/A
Luminaire Lumens: 8420.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85		72	72	72		59
1	97	93	88	84	90	86	82	79	73	70	68		62	59	58		51
2	88	80	74	68	81	74	69	64	63	59	55		53	50	47		44
3	80	70	62	56	74	65	58	53	56	50	46		47	43	39		39
4	73	62	54	47	67	57	50	44	49	43	39		41	37	33		34
5	67	55	46	40	62	51	44	38	44	38	33		37	32	29		31
6	62	49	41	35	57	46	38	33	39	33	29		33	29	25		28
7	57	44	36	30	53	41	34	29	36	30	25		30	26	22		25
8	53	40	32	27	49	38	30	25	32	27	22		28	23	20		23
9	49	37	29	24	46	34	27	22	30	24	20		25	21	18		21
10	46	34	26	21	43	31	25	20	27	22	18		24	19	16		20

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	1.6
10°-20°	387.9	4.6
20°-30°	586.6	7.0
30°-40°	709.6	8.4
40°-50°	750.2	8.9
50°-60°	706.0	8.4
60°-70°	585.9	7.0
70°-80°	411.1	4.9
80°-90°	234.5	2.8
90°-100°	221.3	2.6
100°-110°	351.6	4.2
110°-120°	492.4	5.8
120°-130°	597.5	7.1
130°-140°	644.4	7.7
140°-150°	620.3	7.4
150°-160°	518.9	6.2
160°-170°	345.3	4.1
170°-180°	120.9	1.4
0°-30°	1109.9	13.2
0°-40°	1819.6	21.6
0°-60°	3275.8	38.9
0°-90°	4507.3	53.5
90°-120°	1065.3	12.7
90°-150°	2927.5	34.8
90°-180°	3913.0	46.5
0°-180°	8420.0	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°	29	103	180	232	247	22
95°	80	142	214	260	275	81
105°	245	278	341	384	400	260
115°	440	455	504	538	548	435
125°	634	632	671	700	707	565
135°	812	818	830	853	860	629
145°	985	987	988	997	1000	617
155°	1126	1126	1126	1130	1126	519
165°	1226	1223	1221	1227	1223	346
175°	1276	1271	1270	1277	1270	121
180°	1278	1278	1278	1278	1278	

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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°	28.6	103.4	180.1	232.5	247.2
92.5°	49.7	118.5	192.3	240.0	253.8
95°	80.1	141.8	214.3	260.5	274.9
97.5°	114.1	168.4	241.9	287.4	301.8
100°	155.9	201.5	272.8	318.0	329.2
102.5°	201.4	237.6	306.3	350.9	364.7
105°	244.7	277.6	340.8	383.8	399.5
107.5°	293.1	321.3	378.2	422.2	432.4
110°	340.9	365.3	420.3	455.1	470.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	390.7	409.9	460.7	495.9	508.7
115°	440.5	454.9	504.1	538.3	548.5
117.5°	488.9	498.5	545.5	576.1	586.0
120°	535.7	544.5	587.9	614.9	629.7
122.5°	586.1	587.1	629.3	658.3	664.6
125°	633.9	632.3	671.3	699.7	707.4
127.5°	678.4	679.7	709.8	736.6	746.8
130°	724.2	725.6	751.2	778.0	783.6
132.5°	772.6	773.0	791.2	816.4	825.1
135°	812.5	818.5	829.7	853.3	859.9
137.5°	859.0	860.3	868.7	889.8	898.7
140°	905.4	905.8	907.4	927.2	934.2
142.5°	946.3	948.3	945.7	963.3	969.7
145°	984.9	987.2	988.2	996.8	1000.2
147.5°	1024.4	1027.7	1026.7	1027.4	1032.8
150°	1060.0	1062.3	1062.3	1062.3	1061.3
152.5°	1092.0	1093.9	1094.9	1097.9	1094.9
155°	1126.5	1126.5	1125.6	1129.5	1125.6
157.5°	1156.2	1154.2	1154.2	1157.2	1154.2
160°	1181.9	1180.9	1179.9	1182.9	1177.9
162.5°	1205.6	1202.6	1201.7	1207.6	1202.6
165°	1226.4	1223.4	1221.4	1227.3	1223.4
167.5°	1243.2	1239.2	1239.2	1245.1	1239.2
170°	1257.0	1252.1	1253.0	1259.0	1252.1
172.5°	1266.9	1262.9	1262.9	1269.8	1262.9
175°	1275.8	1270.8	1269.8	1276.8	1269.8
177.5°	1279.7	1274.8	1274.8	1281.7	1273.8
180°	1277.7	1277.7	1277.7	1277.7	1277.7

(END OF REPORT)