

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: P1012850

Luminaire Tested: S124DIP-B1020D1035UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012850
REPORT IS A COMBINATION OF REPORTS P995134 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1020D1035UB2750-4F0-XX-W2A-D_3000K
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

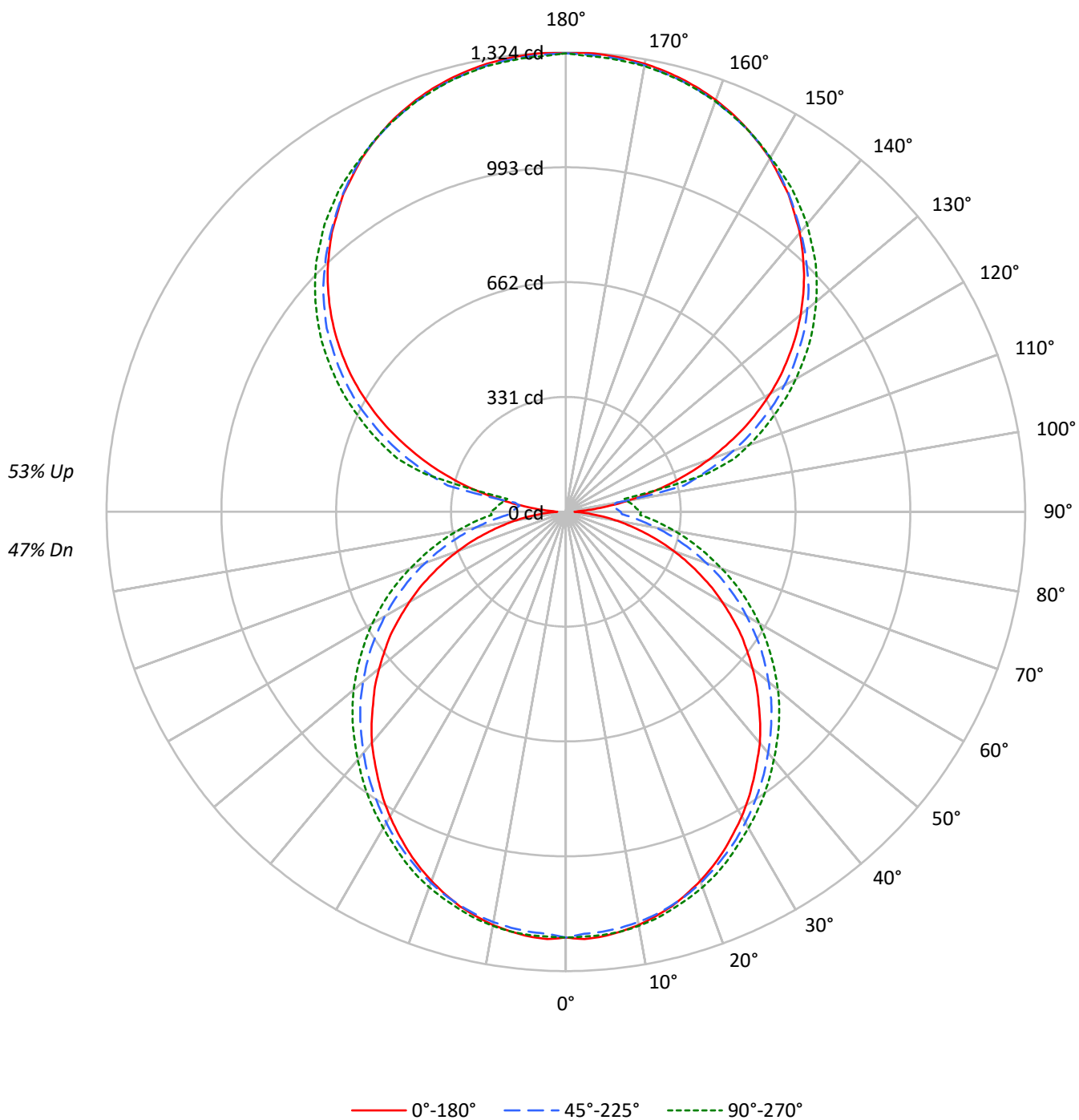
Lumens per Lamp: N/A
Luminaire Lumens: 8275.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53
1	96	91	87	83	88	84	80	77	70	67	65	57	55	54	45	44	43
2	87	79	73	67	80	73	67	62	61	57	53	50	47	44	39	37	35
3	79	69	62	56	72	64	57	52	53	48	44	44	40	37	35	32	30
4	72	61	53	47	66	56	49	43	47	42	37	39	35	31	31	28	25
5	66	54	46	40	60	50	43	37	42	36	32	35	30	27	28	24	22
6	61	49	40	34	56	45	37	32	38	32	28	31	27	23	25	22	19
7	56	44	36	30	51	40	33	28	34	28	24	28	24	21	23	19	17
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	21	18	15
9	48	36	28	23	44	33	27	22	28	23	19	24	19	16	19	16	14
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	18	15	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10007	10007	10007
5°	10035	9746	9764
10°	9969	9555	9527
15°	9876	9339	9260
20°	9738	9106	9001
25°	9582	8848	8722
30°	9414	8593	8436
35°	9223	8333	8182
40°	9070	8082	7919
45°	8844	7847	7686
50°	8650	7580	7441
55°	8452	7323	7159
60°	8141	7003	6893
65°	7801	6658	6574
70°	7389	6263	6205
75°	6813	5825	5852
80°	6161	5378	5483
85°	5298	4930	5186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8844 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	1.4
10°-20°	333.2	4.0
20°-30°	503.7	6.1
30°-40°	609.4	7.4
40°-50°	644.3	7.8
50°-60°	606.3	7.3
60°-70°	503.1	6.1
70°-80°	353.1	4.3
80°-90°	201.8	2.4
90°-100°	162.4	2.0
100°-110°	376.6	4.6
110°-120°	610.4	7.4
120°-130°	733.3	8.9
130°-140°	763.3	9.2
140°-150°	703.2	8.5
150°-160°	564.8	6.8
160°-170°	364.2	4.4
170°-180°	125.5	1.5
0°-30°	953.2	11.5
0°-40°	1562.6	18.9
0°-60°	2813.2	34.0
0°-90°	3871.2	46.8
90°-120°	1149.3	13.9
90°-150°	3349.2	40.5
90°-180°	4404.0	53.2
0°-180°	8275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1229	1224	1215	1226	1224	117
15°	1178	1179	1175	1187	1186	332
25°	1077	1086	1090	1105	1106	496
35°	943	959	973	992	996	590
45°	786	812	838	862	868	608
55°	616	644	686	713	722	549
65°	426	470	517	551	562	422
75°	236	287	345	383	396	251
85°	73	131	192	234	247	76
90°	25	91	158	204	216	18
95°	72	84	141	184	198	81
105°	310	343	399	442	418	325
115°	564	579	622	654	664	555
125°	786	789	821	850	859	702
135°	971	970	984	1008	1018	749
145°	1118	1120	1120	1129	1136	699
155°	1224	1225	1222	1226	1223	565
165°	1292	1287	1287	1294	1286	365
175°	1321	1315	1316	1325	1313	126
180°	1321	1321	1321	1321	1321	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1227.2	1227.2	1227.2	1227.2	1227.2
2.5°	1232.7	1228.6	1217.6	1227.2	1225.8
5°	1228.6	1224.4	1214.8	1225.8	1224.4
7.5°	1220.3	1217.6	1209.3	1221.7	1220.3
10°	1209.3	1208.0	1201.1	1213.4	1212.1
12.5°	1194.2	1194.2	1190.1	1201.1	1201.1
15°	1177.7	1179.1	1175.0	1187.3	1186.0
17.5°	1155.7	1159.9	1158.5	1170.8	1169.5
20°	1132.4	1136.5	1137.9	1151.6	1151.6
22.5°	1106.3	1111.8	1114.5	1128.2	1131.0
25°	1077.4	1085.6	1089.8	1104.9	1106.3
27.5°	1045.8	1058.2	1063.7	1077.4	1078.8
30°	1014.2	1025.2	1034.8	1049.9	1052.7
32.5°	979.8	993.6	1004.6	1022.4	1025.2
35°	942.7	959.2	973.0	992.2	996.3
37.5°	905.6	924.9	941.4	960.6	964.7
40°	869.9	887.8	907.0	927.6	933.1
42.5°	828.7	849.3	872.6	896.0	900.1
45°	786.1	812.2	838.3	861.6	868.5
47.5°	746.2	772.3	802.6	825.9	834.2
50°	702.2	732.5	762.7	790.2	798.4
52.5°	658.3	688.5	724.2	751.7	760.0
55°	615.7	644.5	685.7	713.2	721.5
57.5°	567.6	603.3	643.1	676.1	683.0
60°	520.8	556.6	601.9	633.5	644.5
62.5°	475.5	515.3	560.7	592.3	603.3
65°	426.0	470.0	516.7	551.1	562.1
67.5°	379.3	426.0	475.5	509.8	520.8
70°	331.2	377.9	430.1	467.2	476.9
72.5°	284.5	332.6	388.9	424.6	435.6
75°	236.4	287.2	344.9	383.4	395.8
77.5°	191.0	244.6	305.1	343.6	357.3
80°	149.8	204.8	265.2	306.5	317.4
82.5°	108.6	166.3	226.7	269.4	281.7
85°	72.8	130.6	192.4	233.6	247.4
87.5°	45.3	101.7	162.2	202.0	214.4
90°	25.0	90.8	157.7	203.6	216.5
92.5°	35.4	81.5	148.6	193.0	204.0
95°	72.3	84.0	141.3	184.4	197.7
97.5°	120.3	181.8	134.4	175.1	188.5
100°	177.2	230.6	147.9	168.2	178.9
102.5°	242.4	284.4	348.6	162.0	173.0
105°	309.8	343.3	399.0	442.3	417.6
107.5°	374.1	400.3	455.4	494.7	508.3
110°	437.9	460.1	514.1	547.7	561.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	499.7	522.2	569.5	598.8	613.7
115°	563.6	578.9	621.9	654.1	663.7
117.5°	621.9	634.1	678.3	706.2	717.2
120°	679.9	687.9	726.7	756.2	765.2
122.5°	735.2	737.2	776.2	804.7	812.4
125°	786.2	788.7	821.1	850.2	859.4
127.5°	836.6	836.2	868.6	892.3	901.0
130°	883.6	883.2	908.1	933.9	942.1
132.5°	928.1	928.6	949.1	973.5	980.7
135°	971.1	970.1	983.8	1007.8	1017.9
137.5°	1010.6	1009.3	1019.8	1042.4	1048.3
140°	1049.2	1049.9	1053.1	1074.0	1081.9
142.5°	1082.5	1086.4	1086.0	1103.1	1108.6
145°	1118.0	1119.6	1119.6	1128.8	1136.3
147.5°	1145.7	1150.2	1149.3	1151.6	1158.1
150°	1176.4	1178.9	1177.9	1177.9	1178.9
152.5°	1200.6	1203.6	1201.6	1203.6	1202.6
155°	1224.4	1225.4	1222.4	1226.3	1223.4
157.5°	1245.1	1245.1	1241.2	1246.1	1241.2
160°	1262.9	1259.9	1258.9	1264.9	1258.9
162.5°	1278.7	1274.8	1273.8	1279.7	1272.8
165°	1291.6	1286.6	1286.6	1294.5	1285.6
167.5°	1302.4	1297.5	1296.5	1305.4	1295.5
170°	1311.3	1305.4	1306.4	1314.3	1304.4
172.5°	1317.3	1311.3	1312.3	1320.2	1309.3
175°	1321.2	1315.3	1316.3	1325.2	1313.3
177.5°	1324.2	1317.3	1319.2	1327.1	1315.3
180°	1321.2	1321.2	1321.2	1321.2	1321.2

(END OF REPORT)