

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: P1025509

Luminaire Tested: S124DIP-B575D1035UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025509
REPORT IS A COMBINATION OF REPORTS P996064 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D1035UB40-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

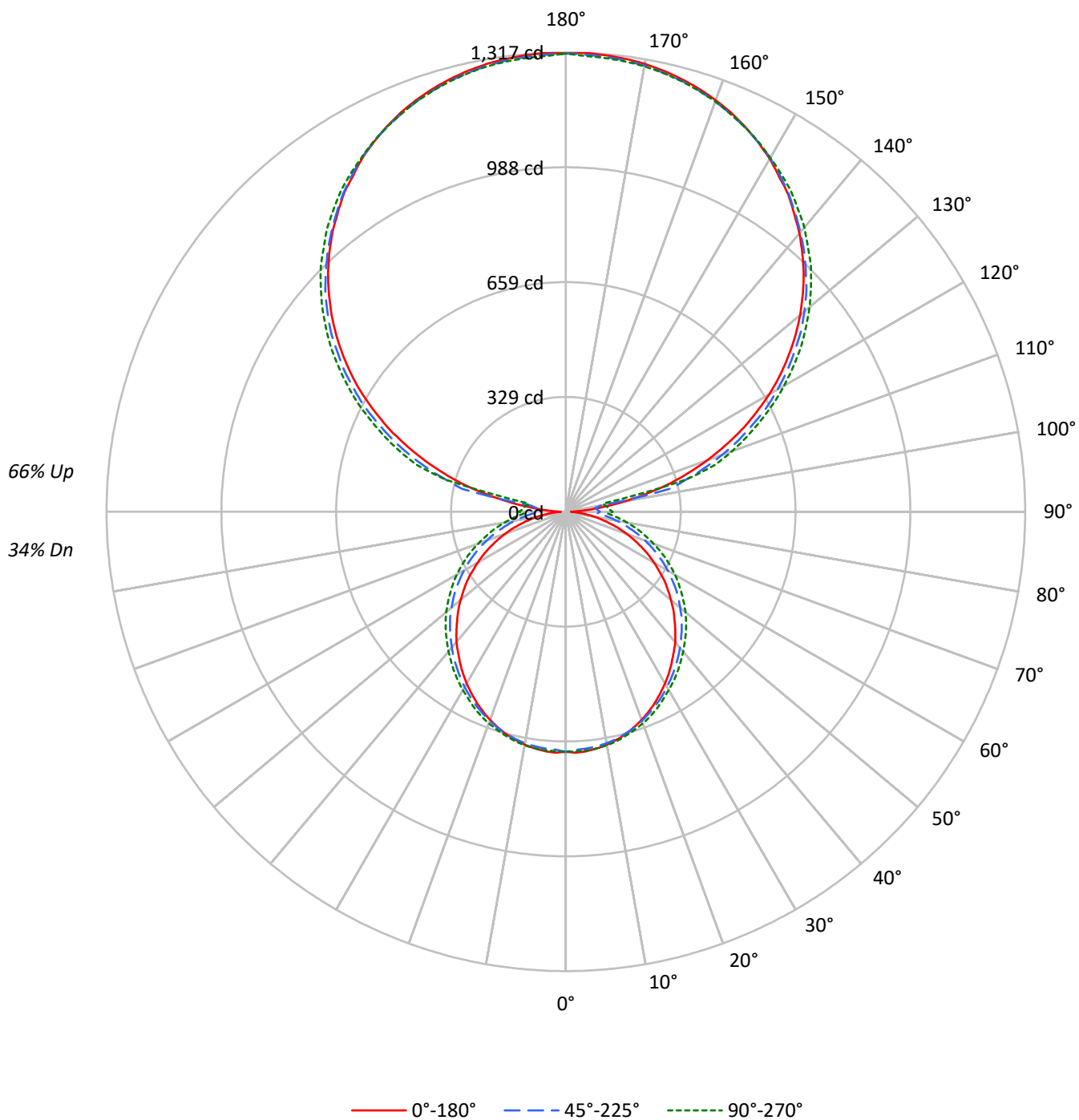
Lumens per Lamp: N/A
Luminaire Lumens: 6414.0 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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

TEST NUMBER: P1025509

CATALOG NUMBER: S124DIP-B575D1035UB40-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1025509

CATALOG NUMBER: S124DIP-B575D1035UB40-4F0-XX-W2A-D

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41
1	93	89	85	81	84	80	77	74	64	62	59	49	48	46	35	34	33
2	85	77	71	66	76	70	64	60	56	52	49	43	40	38	31	29	28
3	77	68	60	54	69	61	55	50	49	44	40	37	34	32	27	25	23
4	70	60	52	46	63	54	47	42	43	38	34	33	30	27	24	22	20
5	64	53	45	39	58	48	41	36	38	33	29	30	26	23	21	19	17
6	59	47	39	33	53	43	36	31	34	29	25	27	23	20	19	17	15
7	55	42	35	29	49	39	32	27	31	26	22	24	20	18	18	15	13
8	51	38	31	25	45	35	28	23	28	23	19	22	18	16	16	14	12
9	47	35	28	23	42	32	25	21	26	21	17	20	17	14	15	12	10
10	44	32	25	20	39	29	23	18	24	19	15	19	15	12	14	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5611	5611	5611
5°	5627	5465	5475
10°	5590	5358	5342
15°	5538	5236	5192
20°	5460	5105	5047
25°	5373	4961	4890
30°	5279	4818	4730
35°	5172	4672	4587
40°	5086	4532	4440
45°	4959	4400	4310
50°	4850	4251	4173
55°	4738	4106	4014
60°	4565	3927	3865
65°	4375	3733	3686
70°	4143	3512	3479
75°	3818	3266	3281
80°	3455	3016	3075
85°	2969	2765	2907

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4959 cd/sqm

TEST NUMBER: P1025509

CATALOG NUMBER: S124DIP-B575D1035UB40-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	1.0
10°-20°	186.8	2.9
20°-30°	282.4	4.4
30°-40°	341.7	5.3
40°-50°	361.2	5.6
50°-60°	340.0	5.3
60°-70°	282.1	4.4
70°-80°	198.0	3.1
80°-90°	114.3	1.8
90°-100°	110.0	1.7
100°-110°	336.4	5.2
110°-120°	581.4	9.1
120°-130°	714.8	11.1
130°-140°	752.8	11.7
140°-150°	698.0	10.9
150°-160°	561.6	8.8
160°-170°	362.2	5.6
170°-180°	124.8	1.9
0°-30°	534.4	8.3
0°-40°	876.2	13.7
0°-60°	1577.4	24.6
0°-90°	2171.8	33.9
90°-120°	1027.9	16.0
90°-150°	3193.5	49.8
90°-180°	4242.0	66.1
0°-180°	6414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	689	687	681	687	687	65
15°	660	661	659	666	665	186
25°	604	609	611	620	620	278
35°	529	538	546	556	559	331
45°	441	455	470	483	487	341
55°	345	361	384	400	404	308
65°	239	264	290	309	315	237
75°	132	161	193	215	222	141
85°	41	73	108	131	139	43
90°	15	57	98	126	134	11
95°	64	56	89	115	123	75
105°	303	324	358	386	356	317
115°	557	567	590	609	615	548
125°	779	782	800	817	823	696
135°	964	964	973	987	994	743
145°	1111	1113	1113	1119	1124	694
155°	1218	1218	1216	1219	1216	561
165°	1284	1279	1279	1287	1278	363
175°	1314	1308	1309	1318	1306	125
180°	1314	1314	1314	1314	1314	

TEST NUMBER: P1025509

CATALOG NUMBER: S124DIP-B575D1035UB40-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	688.1	688.1	688.1	688.1	688.1
2.5°	691.2	688.9	682.7	688.1	687.3
5°	688.9	686.6	681.2	687.3	686.6
7.5°	684.2	682.7	678.1	685.0	684.2
10°	678.1	677.3	673.5	680.4	679.6
12.5°	669.6	669.6	667.3	673.5	673.5
15°	660.4	661.1	658.8	665.7	665.0
17.5°	648.0	650.3	649.6	656.5	655.7
20°	634.9	637.2	638.0	645.7	645.7
22.5°	620.3	623.4	624.9	632.6	634.2
25°	604.1	608.7	611.0	619.5	620.3
27.5°	586.4	593.3	596.4	604.1	604.9
30°	568.7	574.8	580.2	588.7	590.2
32.5°	549.4	557.1	563.3	573.3	574.8
35°	528.6	537.8	545.5	556.3	558.6
37.5°	507.8	518.6	527.8	538.6	540.9
40°	487.8	497.8	508.6	520.1	523.2
42.5°	464.6	476.2	489.3	502.4	504.7
45°	440.8	455.4	470.0	483.1	487.0
47.5°	418.4	433.0	450.0	463.1	467.7
50°	393.7	410.7	427.7	443.1	447.7
52.5°	369.1	386.0	406.1	421.5	426.1
55°	345.2	361.4	384.5	399.9	404.5
57.5°	318.2	338.3	360.6	379.1	383.0
60°	292.0	312.1	337.5	355.2	361.4
62.5°	266.6	289.0	314.4	332.1	338.3
65°	238.9	263.5	289.7	309.0	315.2
67.5°	212.7	238.9	266.6	285.9	292.0
70°	185.7	211.9	241.2	262.0	267.4
72.5°	159.5	186.5	218.1	238.1	244.3
75°	132.5	161.0	193.4	215.0	221.9
77.5°	107.1	137.2	171.1	192.6	200.3
80°	84.0	114.8	148.7	171.8	178.0
82.5°	60.9	93.2	127.1	151.0	158.0
85°	40.8	73.2	107.9	131.0	138.7
87.5°	25.4	57.0	90.9	113.3	120.2
90°	15.2	57.0	97.9	126.1	134.3
92.5°	26.3	51.3	92.3	119.7	125.9
95°	64.0	56.0	88.6	115.3	123.3
97.5°	112.4	156.4	84.8	109.7	117.7
100°	169.7	207.3	101.8	105.9	112.3
102.5°	234.5	263.2	304.3	103.2	109.4
105°	302.7	324.0	357.5	385.5	356.3
107.5°	366.5	382.6	416.5	440.7	450.0
110°	430.7	444.4	477.2	496.9	506.1

TEST NUMBER: P1025509

CATALOG NUMBER: S124DIP-B575D1035UB40-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	492.8	507.9	535.3	551.3	561.4
115°	556.8	566.8	590.4	609.4	614.8
117.5°	614.8	623.3	649.5	664.6	670.8
120°	673.1	679.3	700.6	718.0	722.2
122.5°	728.1	730.1	752.8	769.2	772.6
125°	779.4	782.5	799.8	817.4	823.0
127.5°	829.5	829.7	850.0	862.9	867.3
130°	876.8	877.0	892.4	907.2	911.9
132.5°	921.1	922.2	935.5	949.5	953.2
135°	964.5	963.5	972.8	987.2	993.8
137.5°	1003.8	1003.1	1011.1	1024.6	1027.5
140°	1042.1	1043.4	1046.0	1059.1	1063.9
142.5°	1075.8	1079.7	1079.9	1090.4	1093.5
145°	1111.2	1113.3	1113.3	1118.9	1124.0
147.5°	1138.7	1143.8	1142.8	1144.6	1148.7
150°	1169.1	1172.3	1171.3	1171.3	1172.3
152.5°	1193.9	1196.8	1194.9	1196.8	1195.9
155°	1217.5	1218.5	1215.5	1219.4	1216.5
157.5°	1238.1	1238.1	1234.2	1239.1	1234.2
160°	1255.8	1252.9	1251.9	1257.8	1251.9
162.5°	1271.5	1267.6	1266.6	1272.5	1265.6
165°	1284.3	1279.4	1279.4	1287.2	1278.4
167.5°	1295.1	1290.2	1289.2	1298.1	1288.2
170°	1303.9	1298.1	1299.0	1306.9	1297.1
172.5°	1309.8	1303.9	1304.9	1312.8	1302.0
175°	1313.8	1307.9	1308.9	1317.7	1305.9
177.5°	1316.7	1309.8	1311.8	1319.7	1307.9
180°	1313.8	1313.8	1313.8	1313.8	1313.8

(END OF REPORT)