

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: P1027389

Luminaire Tested: S125DIP-B1090D1270UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027389
REPORT IS A COMBINATION OF REPORTS P1001334 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1270UB50-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

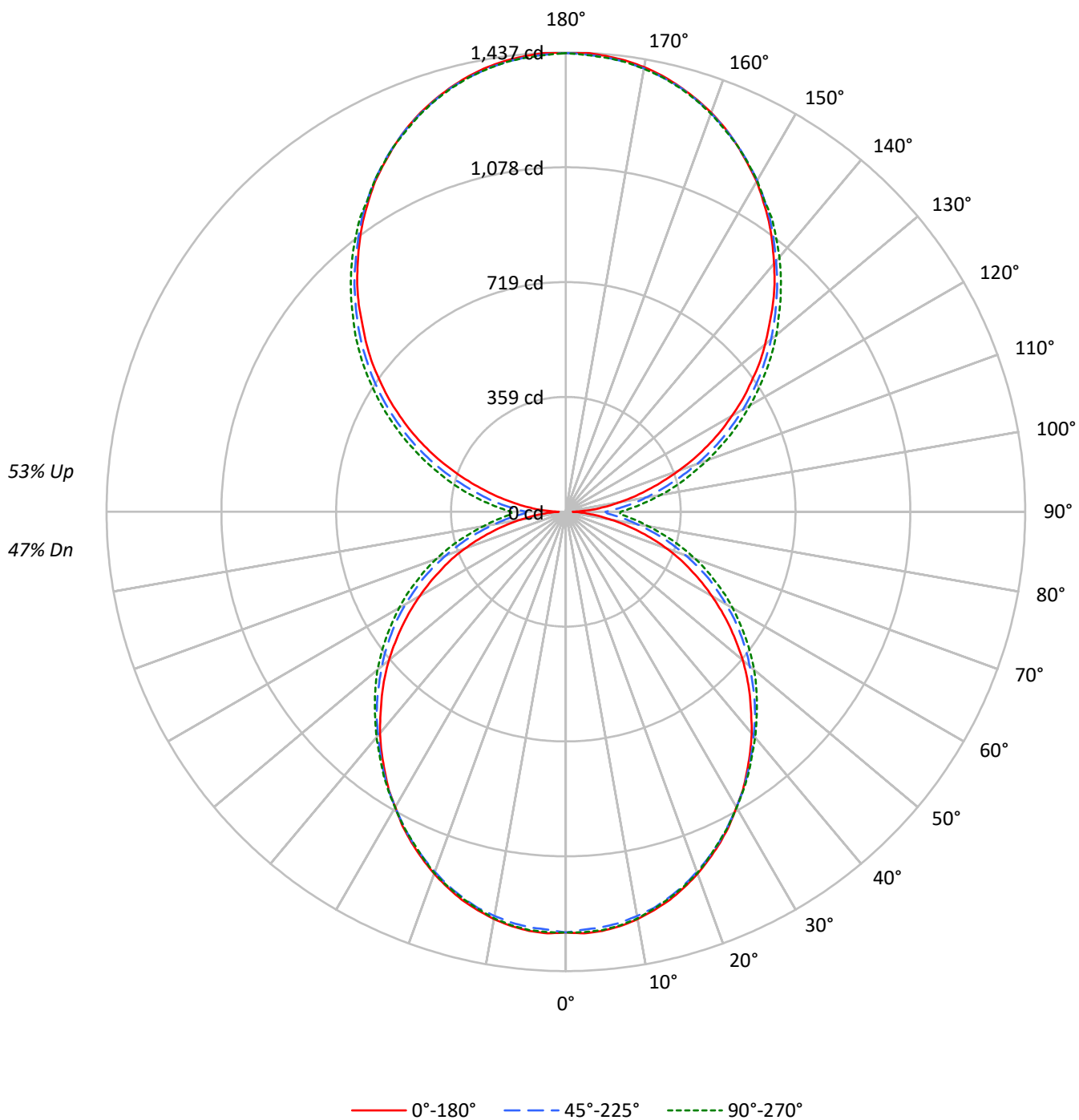
Lumens per Lamp: N/A
Luminaire Lumens: 8084.1 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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

TEST NUMBER: P1027389

CATALOG NUMBER: S125DIP-B1090D1270UB50-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1027389

CATALOG NUMBER: S125DIP-B1090D1270UB50-4F0-XX-W2A-D1

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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54
1	97	92	88	84	88	85	81	78	71	68	66	58	56	55	46	45	44
2	88	80	73	68	80	73	68	63	62	57	54	51	48	45	40	38	36
3	80	70	62	56	73	64	58	52	54	49	45	44	41	38	36	33	31
4	73	62	54	47	67	57	50	44	48	42	38	39	35	32	32	29	26
5	67	55	47	40	61	51	43	38	43	37	33	35	31	28	28	25	23
6	61	49	41	35	56	45	38	33	38	33	28	32	27	24	26	23	20
7	57	44	36	31	52	41	34	29	35	29	25	29	25	21	23	20	18
8	53	40	32	27	48	37	30	25	32	26	22	26	22	19	22	18	16
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	20	17	14
10	46	34	26	21	42	31	25	20	27	21	18	22	18	15	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8432	8432	8432
5°	8446	8256	8275
10°	8382	8087	8064
15°	8280	7891	7804
20°	8143	7655	7545
25°	7980	7403	7233
30°	7782	7129	6949
35°	7598	6875	6687
40°	7410	6609	6423
45°	7198	6378	6185
50°	6994	6126	5971
55°	6749	5888	5722
60°	6481	5614	5467
65°	6202	5327	5180
70°	5881	4943	4881
75°	5375	4562	4516
80°	4712	4101	4112
85°	4059	3732	3899

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7198 cd/sqm

TEST NUMBER: P1027389

CATALOG NUMBER: S125DIP-B1090D1270UB50-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.5
10°-20°	353.5	4.4
20°-30°	525.7	6.5
30°-40°	622.6	7.7
40°-50°	643.7	8.0
50°-60°	593.0	7.3
60°-70°	479.3	5.9
70°-80°	320.7	4.0
80°-90°	168.0	2.1
90°-100°	188.8	2.3
100°-110°	352.3	4.4
110°-120°	526.8	6.5
120°-130°	659.0	8.2
130°-140°	720.6	8.9
140°-150°	697.4	8.6
150°-160°	583.9	7.2
160°-170°	388.1	4.8
170°-180°	135.8	1.7
0°-30°	1003.8	12.4
0°-40°	1626.4	20.1
0°-60°	2863.1	35.4
0°-90°	3831.2	47.4
90°-120°	1068.0	13.2
90°-150°	3145.0	38.9
90°-180°	4253.0	52.6
0°-180°	8084.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1316	1314	1304	1315	1314	125
15°	1257	1258	1249	1257	1252	354
25°	1142	1146	1138	1143	1137	526
35°	988	997	994	997	997	619
45°	814	828	835	844	845	628
55°	626	646	667	681	686	559
65°	431	461	492	511	516	428
75°	237	271	312	338	344	252
85°	71	114	159	187	197	74
90°	22	72	124	159	171	19
95°	89	125	180	216	228	89
105°	266	292	338	370	383	284
115°	489	503	538	560	567	484
125°	708	713	740	758	764	634
135°	916	921	932	948	950	706
145°	1108	1111	1114	1121	1123	692
155°	1266	1266	1267	1272	1266	583
165°	1377	1375	1376	1380	1374	388
175°	1432	1427	1427	1434	1426	136
180°	1435	1435	1435	1435	1435	

TEST NUMBER: P1027389

CATALOG NUMBER: S125DIP-B1090D1270UB50-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.1	1316.1	1316.1	1316.1	1316.1
2.5°	1320.0	1317.4	1308.3	1317.4	1316.1
5°	1316.1	1313.5	1304.5	1314.8	1313.5
7.5°	1307.1	1305.8	1296.7	1305.8	1304.5
10°	1294.1	1294.1	1283.8	1292.9	1291.6
12.5°	1276.1	1277.4	1269.6	1276.1	1272.2
15°	1256.7	1258.0	1249.0	1256.7	1251.6
17.5°	1232.2	1234.8	1225.8	1232.2	1228.3
20°	1205.1	1207.7	1198.7	1202.5	1202.5
22.5°	1174.2	1179.3	1169.0	1174.2	1170.3
25°	1141.9	1145.8	1138.0	1143.2	1136.7
27.5°	1107.1	1112.2	1103.2	1107.1	1104.5
30°	1067.1	1074.8	1067.1	1069.6	1068.4
32.5°	1030.9	1037.4	1032.2	1034.8	1033.5
35°	988.4	997.4	993.5	997.4	997.4
37.5°	947.1	954.8	953.5	958.7	957.4
40°	904.5	914.8	913.5	918.7	921.3
42.5°	858.0	872.2	876.1	882.6	882.6
45°	814.2	828.4	834.8	843.8	845.1
47.5°	769.0	781.9	792.2	805.1	807.7
50°	722.6	736.7	750.9	765.1	769.0
52.5°	673.5	691.6	709.7	725.1	727.7
55°	625.8	646.4	667.1	681.3	686.4
57.5°	576.8	601.3	624.5	640.0	643.8
60°	527.7	553.5	579.3	598.7	602.6
62.5°	480.0	505.8	534.2	556.1	561.3
65°	431.0	460.6	491.6	511.0	516.1
67.5°	385.8	414.2	445.1	468.4	474.8
70°	335.5	365.1	398.7	423.2	431.0
72.5°	286.4	317.4	354.8	381.9	387.1
75°	237.4	271.0	312.2	338.1	344.5
77.5°	189.7	228.4	267.1	295.5	300.6
80°	145.8	184.5	228.4	256.8	261.9
82.5°	105.8	147.1	192.3	219.3	229.7
85°	71.0	113.5	158.7	187.1	197.4
87.5°	45.2	86.4	130.3	160.0	169.0
90°	21.7	72.0	123.7	159.0	171.3
92.5°	51.6	94.6	149.7	186.0	197.3
95°	89.4	125.1	180.2	216.4	227.6
97.5°	127.2	159.3	217.4	251.2	261.4
100°	170.5	197.6	253.5	290.6	300.5
102.5°	217.3	247.3	292.9	329.9	341.0
105°	266.2	292.5	337.9	370.4	382.7
107.5°	319.6	343.3	386.3	415.4	423.2
110°	375.3	396.4	435.8	463.8	471.6

TEST NUMBER: P1027389

CATALOG NUMBER: S125DIP-B1090D1270UB50-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	433.3	447.2	486.5	510.9	517.6
115°	489.0	502.6	538.3	560.4	567.1
117.5°	545.9	553.4	587.9	610.9	615.5
120°	599.5	608.8	639.7	661.6	664.9
122.5°	656.2	658.6	690.3	709.9	714.2
125°	707.6	713.0	739.9	758.3	763.7
127.5°	763.2	765.3	788.3	806.6	812.1
130°	813.5	817.8	838.0	855.0	859.3
132.5°	862.4	872.5	884.3	901.2	903.0
135°	916.0	921.4	931.6	948.4	950.3
137.5°	966.3	971.7	979.1	995.6	995.3
140°	1013.0	1018.6	1023.2	1039.7	1039.2
142.5°	1061.0	1064.2	1068.7	1081.4	1081.0
145°	1107.9	1111.1	1114.4	1120.9	1122.7
147.5°	1150.2	1153.5	1155.8	1161.7	1155.4
150°	1193.7	1192.6	1197.1	1197.1	1196.1
152.5°	1229.5	1231.7	1232.8	1236.2	1231.7
155°	1266.3	1266.3	1267.4	1271.9	1266.3
157.5°	1299.8	1297.6	1298.7	1303.2	1295.3
160°	1328.8	1325.5	1326.6	1331.1	1325.5
162.5°	1354.5	1352.3	1352.3	1357.9	1351.2
165°	1376.9	1374.6	1375.7	1380.2	1373.5
167.5°	1397.0	1392.5	1392.5	1399.2	1392.5
170°	1412.6	1408.1	1408.1	1414.8	1407.0
172.5°	1423.8	1419.3	1419.3	1426.0	1419.3
175°	1431.6	1427.1	1427.1	1433.8	1426.0
177.5°	1437.2	1432.7	1431.6	1438.3	1430.5
180°	1434.9	1434.9	1434.9	1434.9	1434.9

(END OF REPORT)