

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: P1027344

Luminaire Tested: S125DIP-B1090D1090UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027344
REPORT IS A COMBINATION OF REPORTS P1001274 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1090UB50-4F0-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

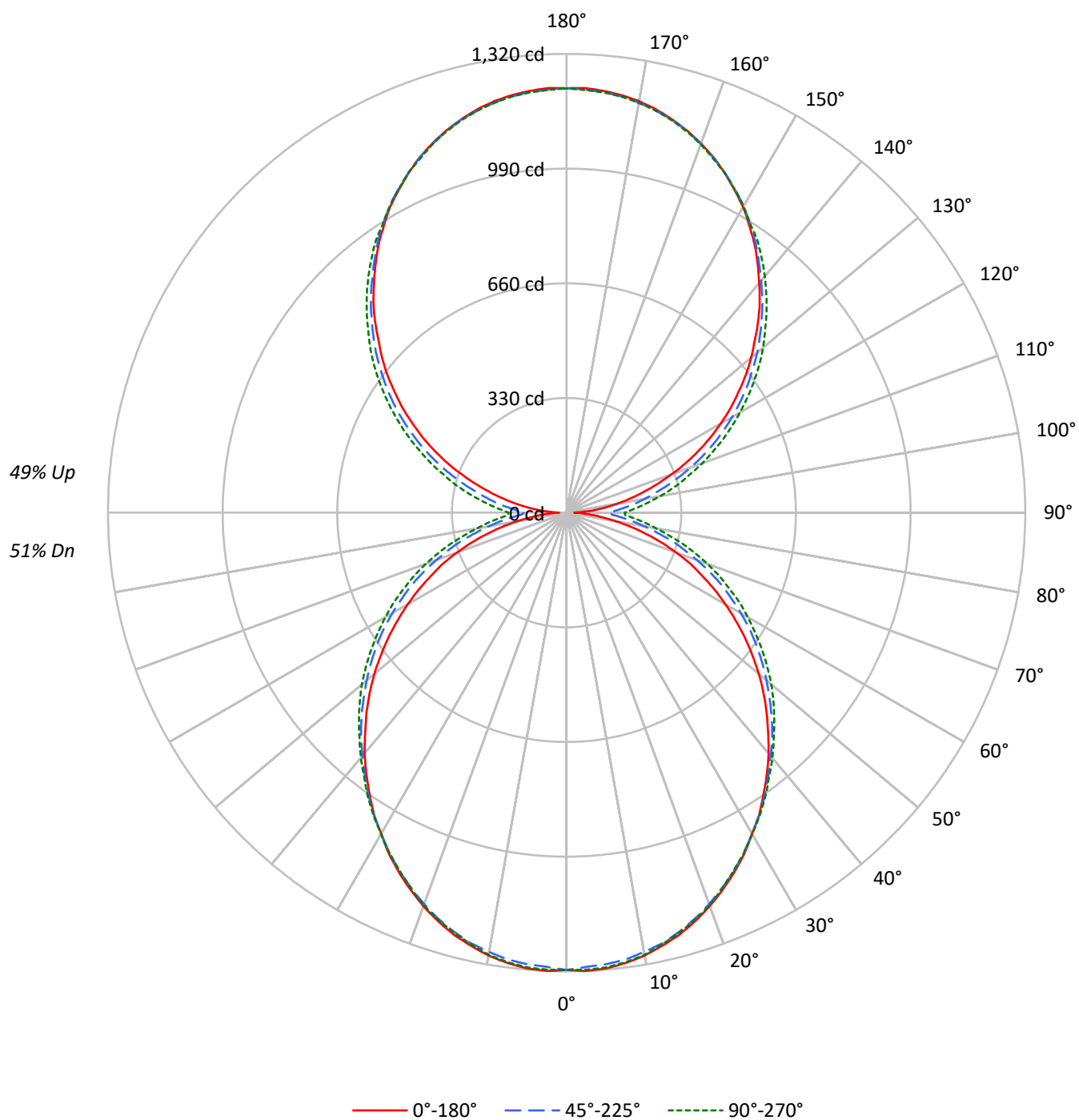
Lumens per Lamp: N/A
Luminaire Lumens: 7487.0 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	97	93	88	85	90	86	82	79	73	70	67	60	59	57	49	48	47
2	88	80	74	69	81	74	69	64	63	59	55	53	50	47	43	41	39
3	80	70	63	57	74	65	59	53	55	50	46	46	42	39	38	35	33
4	73	62	54	48	67	58	50	45	49	43	39	41	37	33	34	31	28
5	67	55	47	41	62	51	44	38	44	38	34	37	32	29	30	27	24
6	62	50	41	35	57	46	39	33	39	34	29	33	29	25	27	24	21
7	57	45	37	31	53	42	34	29	36	30	26	30	26	22	25	22	19
8	53	41	33	27	49	38	31	26	33	27	23	28	23	20	23	19	17
9	49	37	29	24	46	35	28	23	30	24	20	25	21	18	21	18	15
10	46	34	27	22	43	32	25	21	27	22	18	23	19	16	20	16	14

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.7
10°-20°	353.5	4.7
20°-30°	525.7	7.0
30°-40°	622.6	8.3
40°-50°	643.7	8.6
50°-60°	593.0	7.9
60°-70°	479.3	6.4
70°-80°	320.7	4.3
80°-90°	167.7	2.2
90°-100°	174.6	2.3
100°-110°	310.1	4.1
110°-120°	455.2	6.1
120°-130°	564.7	7.5
130°-140°	615.0	8.2
140°-150°	593.8	7.9
150°-160°	496.9	6.6
160°-170°	330.3	4.4
170°-180°	115.6	1.5
0°-30°	1003.8	13.4
0°-40°	1626.4	21.7
0°-60°	2863.1	38.2
0°-90°	3830.8	51.2
90°-120°	939.9	12.6
90°-150°	2713.4	36.2
90°-180°	3656.0	48.8
0°-180°	7487.0	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	70	121	156	167	18
95°	79	114	167	202	213	78
105°	228	254	298	330	342	243
115°	417	430	466	488	495	413
125°	603	607	634	653	658	540
135°	780	784	794	811	814	601
145°	943	946	948	955	957	589
155°	1078	1078	1079	1082	1078	496
165°	1172	1170	1171	1175	1169	331
175°	1218	1214	1214	1220	1214	116
180°	1221	1221	1221	1221	1221	

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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°	21.6	70.5	121.0	155.5	167.3
92.5°	46.6	88.8	142.4	177.5	188.5
95°	78.6	114.0	167.4	202.4	213.3
97.5°	110.5	142.5	198.3	231.1	241.1
100°	147.2	174.3	228.0	263.6	273.2
102.5°	186.8	216.1	260.8	296.1	306.8
105°	228.3	253.7	298.1	329.6	341.5
107.5°	273.5	296.4	338.5	367.2	375.0
110°	320.7	341.0	379.9	407.4	415.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	370.1	383.6	422.3	446.5	453.6
115°	417.3	430.2	465.6	487.8	494.7
117.5°	465.5	472.8	507.0	529.9	535.1
120°	511.1	519.7	550.3	572.2	576.2
122.5°	559.2	561.5	592.6	612.4	617.2
125°	602.9	607.3	634.1	652.8	658.3
127.5°	650.1	651.7	674.5	693.0	698.8
130°	692.9	696.3	716.2	733.4	738.0
132.5°	734.3	742.9	754.8	771.9	774.2
135°	779.9	784.3	794.3	811.1	813.7
137.5°	822.7	827.1	834.2	850.6	851.0
140°	862.3	867.0	871.2	887.3	887.6
142.5°	903.1	905.6	909.4	922.0	922.4
145°	943.0	945.6	948.4	954.9	957.2
147.5°	978.8	981.7	983.6	989.0	984.0
150°	1015.9	1014.9	1018.7	1018.7	1018.1
152.5°	1046.3	1048.2	1049.1	1052.0	1048.2
155°	1077.6	1077.6	1078.6	1082.4	1077.6
157.5°	1106.2	1104.3	1105.2	1109.0	1102.4
160°	1130.9	1128.0	1129.0	1132.8	1128.0
162.5°	1152.7	1150.8	1150.8	1155.6	1149.9
165°	1171.7	1169.8	1170.8	1174.6	1168.9
167.5°	1188.8	1185.0	1185.0	1190.7	1185.0
170°	1202.1	1198.3	1198.3	1204.0	1197.4
172.5°	1211.6	1207.8	1207.8	1213.5	1207.8
175°	1218.3	1214.5	1214.5	1220.2	1213.5
177.5°	1223.0	1219.2	1218.3	1224.0	1217.3
180°	1221.1	1221.1	1221.1	1221.1	1221.1

(END OF REPORT)