

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: P1027210

Luminaire Tested: S125RDIP-B610D1090UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027210
REPORT IS A COMBINATION OF REPORTS P1005531 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B610D1090UB2750-4F0-XX-W2A-F_3000K
Description: Define 5 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

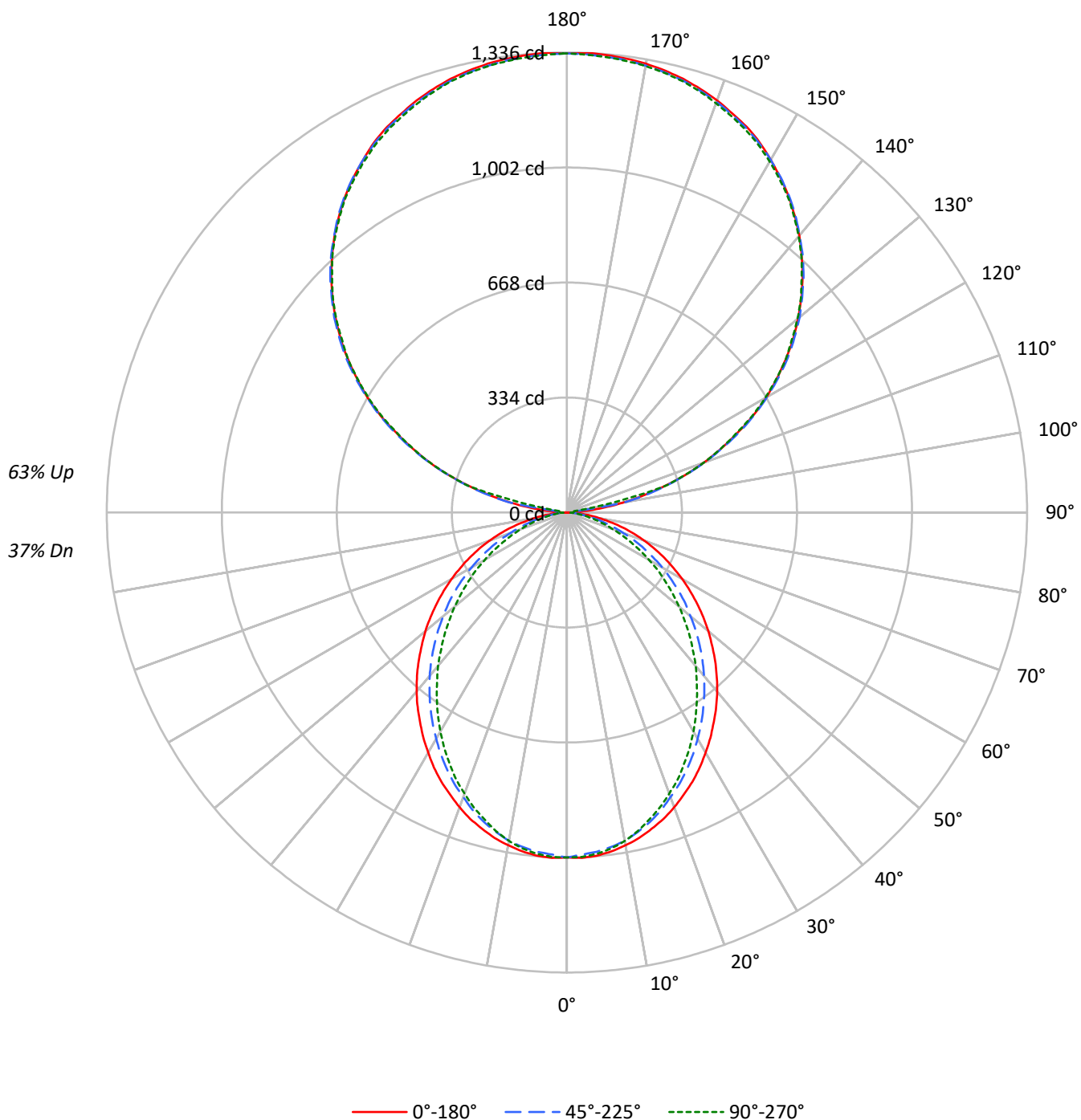
Lumens per Lamp: N/A
Luminaire Lumens: 6465.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44
1	95	91	87	84	86	82	79	76	67	65	63	52	51	50	39	38	37
2	87	79	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32
3	79	70	63	57	71	64	58	53	52	47	44	41	38	35	31	29	27
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18
7	56	45	37	31	51	41	34	29	34	28	25	27	23	20	21	18	16
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	17	15	13
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6419	6419	6419
5°	6419	6259	6269
10°	6357	6101	6047
15°	6267	5880	5756
20°	6155	5615	5451
25°	6028	5356	5123
30°	5872	5070	4779
35°	5712	4780	4413
40°	5560	4483	4057
45°	5378	4162	3683
50°	5193	3822	3302
55°	4979	3486	2908
60°	4758	3102	2499
65°	4497	2673	2058
70°	4191	2176	1619
75°	3770	1636	1180
80°	3180	1059	796
85°	2378	569	448

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5378 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	1.5
10°-20°	263.5	4.1
20°-30°	382.1	5.9
30°-40°	435.3	6.7
40°-50°	424.3	6.6
50°-60°	357.1	5.5
60°-70°	250.2	3.9
70°-80°	128.3	2.0
80°-90°	34.0	0.5
90°-100°	45.3	0.7
100°-110°	300.9	4.7
110°-120°	541.9	8.4
120°-130°	695.6	10.8
130°-140°	748.1	11.6
140°-150°	702.2	10.9
150°-160°	568.0	8.8
160°-170°	367.3	5.7
170°-180°	126.7	2.0
0°-30°	739.9	11.4
0°-40°	1175.2	18.2
0°-60°	1956.5	30.3
0°-90°	2369.0	36.6
90°-120°	888.1	13.7
90°-150°	3034.1	46.9
90°-180°	4096.0	63.4
0°-180°	6465.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	1000	997	989	996	995	95
15°	951	947	931	930	923	268
25°	863	851	823	813	805	397
35°	743	725	691	669	658	465
45°	608	586	545	514	503	469
55°	462	437	395	361	349	413
65°	312	287	247	216	205	309
75°	166	144	112	95	90	176
85°	42	28	24	24	23	46
90°	1	9	16	21	24	5
95°	56	53	16	21	21	69
105°	291	295	295	295	294	308
115°	546	551	552	548	542	541
125°	776	783	783	779	776	693
135°	968	974	972	970	964	746
145°	1122	1124	1124	1125	1119	702
155°	1236	1230	1232	1235	1227	569
165°	1304	1298	1299	1305	1297	368
175°	1333	1328	1328	1336	1328	127
180°	1333	1333	1333	1333	1333	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1001.8	1001.8	1001.8	1001.8	1001.8
2.5°	1004.1	1001.8	994.3	1001.8	1001.1
5°	1000.3	997.3	989.0	996.5	995.0
7.5°	992.8	989.7	979.9	986.0	984.4
10°	981.4	979.1	968.5	970.8	968.5
12.5°	968.5	965.5	950.4	951.9	948.1
15°	951.1	946.6	930.7	930.0	923.1
17.5°	933.0	926.2	907.3	903.5	898.2
20°	911.0	903.5	879.3	875.5	868.7
22.5°	886.8	879.3	853.5	845.2	839.9
25°	862.6	851.3	823.3	813.4	805.1
27.5°	835.4	821.8	792.2	779.4	771.1
30°	805.1	790.7	758.9	741.5	734.7
32.5°	775.6	758.2	725.7	706.0	696.9
35°	743.1	724.9	690.8	668.9	658.3
37.5°	712.0	690.1	655.3	629.6	619.0
40°	678.7	656.0	619.7	591.0	581.9
42.5°	643.9	620.5	582.6	555.4	541.0
45°	608.4	586.4	544.8	514.5	503.2
47.5°	571.3	548.6	507.0	476.0	463.1
50°	536.5	511.5	468.4	436.6	425.3
52.5°	498.7	472.9	432.8	398.0	386.7
55°	461.6	437.4	395.0	360.9	348.8
57.5°	423.7	398.0	357.2	323.9	313.3
60°	387.4	360.9	320.1	286.8	275.4
62.5°	348.8	323.9	282.2	252.0	240.6
65°	312.5	286.8	246.7	216.4	205.1
67.5°	276.2	250.5	211.9	183.1	174.0
70°	239.1	213.4	175.5	152.1	143.0
72.5°	202.8	177.8	143.0	121.8	116.5
75°	166.5	143.8	112.0	95.3	90.0
77.5°	129.4	111.2	84.7	71.9	67.3
80°	98.4	80.2	59.0	52.2	50.7
82.5°	68.1	52.2	39.3	37.1	36.3
85°	41.6	28.0	24.2	23.5	22.7
87.5°	17.4	12.1	11.4	11.4	10.6
90°	1.0	8.9	15.8	20.8	23.7
92.5°	18.8	9.9	15.8	20.8	21.7
95°	56.3	53.4	15.8	20.8	20.8
97.5°	105.8	111.7	17.8	19.8	20.8
100°	165.1	168.0	172.0	24.7	20.8
102.5°	225.4	229.3	231.3	233.3	150.2
105°	290.6	294.6	294.6	294.6	293.6
107.5°	357.8	357.8	359.8	360.8	356.8
110°	423.1	423.1	425.0	422.1	423.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	484.3	487.3	488.3	484.3	482.4
115°	545.6	550.6	551.6	547.6	541.7
117.5°	609.9	609.9	613.8	607.9	605.9
120°	669.2	668.2	671.2	669.2	664.2
122.5°	721.6	726.5	727.5	725.5	719.6
125°	775.9	782.9	782.9	778.9	775.9
127.5°	828.3	833.3	832.3	830.3	822.4
130°	875.8	880.7	881.7	878.7	873.8
132.5°	923.2	929.2	926.2	926.2	921.2
135°	967.7	973.6	971.7	969.7	963.7
137.5°	1009.2	1015.1	1013.2	1013.2	1008.2
140°	1049.7	1051.7	1050.7	1052.7	1046.8
142.5°	1086.3	1087.3	1089.3	1089.3	1083.4
145°	1121.9	1123.9	1123.9	1124.9	1118.9
147.5°	1153.5	1153.5	1154.5	1155.5	1148.6
150°	1183.2	1181.2	1183.2	1185.2	1177.3
152.5°	1211.9	1206.9	1208.9	1210.9	1203.9
155°	1235.6	1229.6	1231.6	1234.6	1226.7
157.5°	1254.4	1251.4	1251.4	1254.4	1246.4
160°	1274.1	1268.2	1269.2	1273.1	1265.2
162.5°	1289.9	1284.0	1285.0	1290.9	1282.0
165°	1303.8	1297.8	1298.8	1304.8	1296.9
167.5°	1314.7	1308.7	1309.7	1316.6	1307.7
170°	1323.5	1316.6	1317.6	1325.5	1316.6
172.5°	1329.5	1322.6	1324.5	1331.5	1322.6
175°	1333.4	1327.5	1328.5	1336.4	1327.5
177.5°	1336.4	1330.5	1331.5	1338.4	1330.5
180°	1333.4	1333.4	1333.4	1333.4	1333.4

(END OF REPORT)