

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: P1027263

Luminaire Tested: S125RDIP-B850D1090UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027263
REPORT IS A COMBINATION OF REPORTS P1005734 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B850D1090UB2750-4F0-XX-W2A-F_5000K
Description: Define 5 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

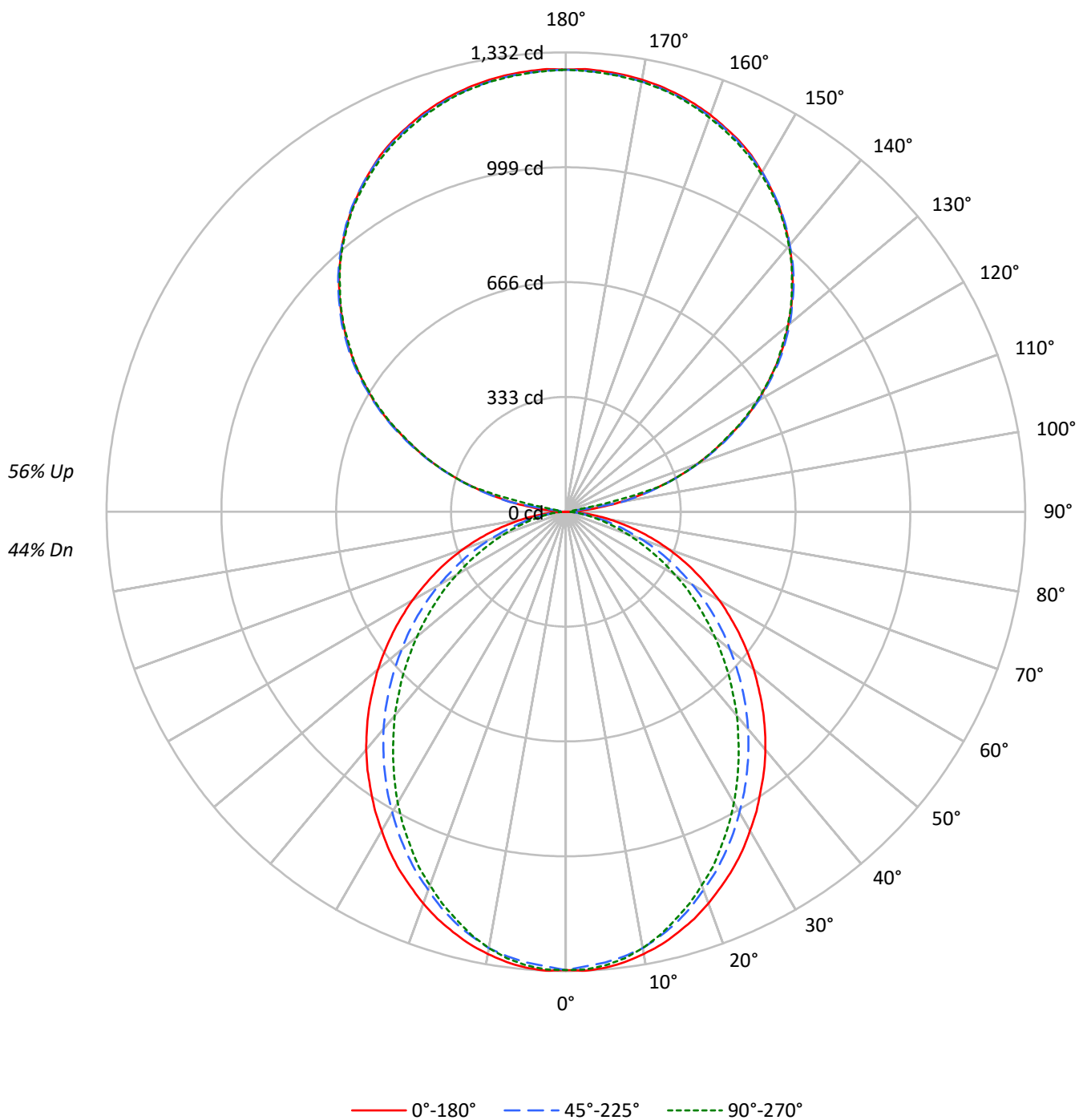
Lumens per Lamp: N/A
Luminaire Lumens: 7080.1 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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	97	97	97	97		80	80	80		65	65	65		51	51	51
1	97	93	89	85	88	85	82	79		71	68	66		57	56	54		45	44	43
2	88	81	75	70	81	74	69	65		62	58	55		51	48	46		40	38	37
3	81	71	64	58	74	66	59	54		55	50	47		45	42	39		36	33	32
4	74	63	55	50	67	58	51	46		49	44	40		40	36	33		32	29	27
5	68	56	48	43	62	52	45	40		44	38	34		36	32	29		29	26	24
6	62	51	43	37	57	47	40	35		39	34	30		33	29	26		26	23	21
7	58	46	38	32	53	42	35	30		36	30	26		30	26	23		24	21	19
8	54	41	34	29	49	38	32	27		33	27	24		27	23	20		22	19	17
9	50	38	30	25	46	35	29	24		30	25	21		25	21	18		20	17	15
10	47	35	28	23	43	32	26	22		28	22	19		23	19	16		19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8515	8515	8515
5°	8516	8303	8316
10°	8433	8094	8023
15°	8314	7801	7636
20°	8166	7448	7231
25°	7996	7104	6796
30°	7789	6726	6340
35°	7577	6342	5855
40°	7376	5948	5381
45°	7134	5521	4885
50°	6889	5069	4380
55°	6604	4625	3857
60°	6312	4115	3315
65°	5966	3546	2730
70°	5560	2887	2148
75°	4999	2171	1566
80°	4217	1406	1057
85°	3156	755	595

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7134 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	1.8
10°-20°	349.6	4.9
20°-30°	506.9	7.2
30°-40°	577.5	8.2
40°-50°	562.8	7.9
50°-60°	473.7	6.7
60°-70°	331.9	4.7
70°-80°	170.2	2.4
80°-90°	44.4	0.6
90°-100°	43.5	0.6
100°-110°	289.3	4.1
110°-120°	521.0	7.4
120°-130°	668.8	9.4
130°-140°	719.3	10.2
140°-150°	675.1	9.5
150°-160°	546.1	7.7
160°-170°	353.2	5.0
170°-180°	121.8	1.7
0°-30°	981.5	13.9
0°-40°	1559.0	22.0
0°-60°	2595.5	36.7
0°-90°	3141.9	44.4
90°-120°	853.9	12.1
90°-150°	2917.1	41.2
90°-180°	3938.0	55.6
0°-180°	7080.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1329	1329	1329	1329	1329	
5°	1327	1323	1312	1322	1320	126
15°	1262	1256	1235	1234	1225	356
25°	1144	1129	1092	1079	1068	527
35°	986	962	916	887	873	617
45°	807	778	723	683	668	622
55°	612	580	524	479	463	548
65°	415	380	327	287	272	411
75°	221	191	149	126	120	233
85°	55	37	32	31	30	60
90°	1	9	15	20	23	6
95°	54	51	15	20	20	66
105°	279	283	283	283	282	296
115°	525	529	530	526	521	520
125°	746	753	753	749	746	666
135°	930	936	934	932	927	717
145°	1079	1080	1080	1082	1076	675
155°	1188	1182	1184	1187	1179	547
165°	1254	1248	1249	1254	1247	354
175°	1282	1276	1277	1285	1276	122
180°	1282	1282	1282	1282	1282	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1329.0	1329.0	1329.0	1329.0	1329.0
2.5°	1332.0	1329.0	1319.0	1329.0	1328.0
5°	1327.0	1323.0	1312.0	1322.0	1320.0
7.5°	1317.0	1313.0	1299.9	1307.9	1305.9
10°	1301.9	1298.9	1284.9	1287.9	1284.9
12.5°	1284.9	1280.8	1260.8	1262.8	1257.8
15°	1261.8	1255.7	1234.7	1233.7	1224.6
17.5°	1237.7	1228.6	1203.5	1198.5	1191.5
20°	1208.6	1198.5	1166.4	1161.4	1152.4
22.5°	1176.4	1166.4	1132.3	1121.2	1114.2
25°	1144.3	1129.3	1092.1	1079.1	1068.0
27.5°	1108.2	1090.1	1051.0	1033.9	1022.9
30°	1068.0	1049.0	1006.8	983.7	974.7
32.5°	1028.9	1005.8	962.6	936.5	924.5
35°	985.7	961.6	916.5	887.4	873.3
37.5°	944.6	915.5	869.3	835.2	821.1
40°	900.4	870.3	822.1	784.0	771.9
42.5°	854.2	823.1	772.9	736.8	717.7
45°	807.0	777.9	722.7	682.6	667.5
47.5°	757.9	727.7	672.5	631.4	614.3
50°	711.7	678.6	621.3	579.2	564.1
52.5°	661.5	627.4	574.2	528.0	512.9
55°	612.3	580.2	524.0	478.8	462.7
57.5°	562.1	528.0	473.8	429.6	415.6
60°	513.9	478.8	424.6	380.4	365.4
62.5°	462.7	429.6	374.4	334.3	319.2
65°	414.6	380.4	327.2	287.1	272.0
67.5°	366.4	332.3	281.1	242.9	230.9
70°	317.2	283.1	232.9	201.8	189.7
72.5°	269.0	235.9	189.7	161.6	154.6
75°	220.8	190.7	148.6	126.5	119.5
77.5°	171.6	147.6	112.4	95.4	89.3
80°	130.5	106.4	78.3	69.3	67.3
82.5°	90.3	69.3	52.2	49.2	48.2
85°	55.2	37.1	32.1	31.1	30.1
87.5°	23.1	16.1	15.1	15.1	14.1
90°	1.0	8.6	15.2	20.0	22.8
92.5°	18.1	9.5	15.2	20.0	20.9
95°	54.2	51.3	15.2	20.0	20.0
97.5°	101.7	107.4	17.1	19.0	20.0
100°	158.7	161.6	165.4	23.8	20.0
102.5°	216.7	220.5	222.4	224.3	144.5
105°	279.4	283.2	283.2	283.2	282.3
107.5°	344.0	344.0	345.9	346.9	343.1
110°	406.7	406.7	408.7	405.8	406.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	465.7	468.5	469.5	465.7	463.8
115°	524.6	529.3	530.3	526.5	520.8
117.5°	586.4	586.4	590.2	584.5	582.6
120°	643.4	642.4	645.3	643.4	638.6
122.5°	693.8	698.5	699.5	697.6	691.9
125°	746.0	752.7	752.7	748.9	746.0
127.5°	796.4	801.1	800.2	798.3	790.7
130°	842.0	846.8	847.7	844.9	840.1
132.5°	887.6	893.3	890.5	890.5	885.7
135°	930.4	936.1	934.2	932.3	926.6
137.5°	970.3	976.0	974.1	974.1	969.4
140°	1009.3	1011.2	1010.2	1012.1	1006.4
142.5°	1044.4	1045.4	1047.3	1047.3	1041.6
145°	1078.6	1080.5	1080.5	1081.5	1075.8
147.5°	1109.1	1109.1	1110.0	1111.0	1104.3
150°	1137.6	1135.7	1137.6	1139.5	1131.9
152.5°	1165.1	1160.4	1162.3	1164.2	1157.5
155°	1187.9	1182.2	1184.1	1187.0	1179.4
157.5°	1206.0	1203.1	1203.1	1206.0	1198.4
160°	1225.0	1219.3	1220.2	1224.1	1216.4
162.5°	1240.2	1234.5	1235.5	1241.2	1232.6
165°	1253.5	1247.8	1248.8	1254.5	1246.9
167.5°	1264.0	1258.3	1259.2	1265.9	1257.3
170°	1272.5	1265.9	1266.8	1274.4	1265.9
172.5°	1278.2	1271.6	1273.5	1280.1	1271.6
175°	1282.0	1276.3	1277.3	1284.9	1276.3
177.5°	1284.9	1279.2	1280.1	1286.8	1279.2
180°	1282.0	1282.0	1282.0	1282.0	1282.0

(END OF REPORT)