

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: P1027213

Luminaire Tested: S125RDIP-B610D1090UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027213
REPORT IS A COMBINATION OF REPORTS P1005534 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_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

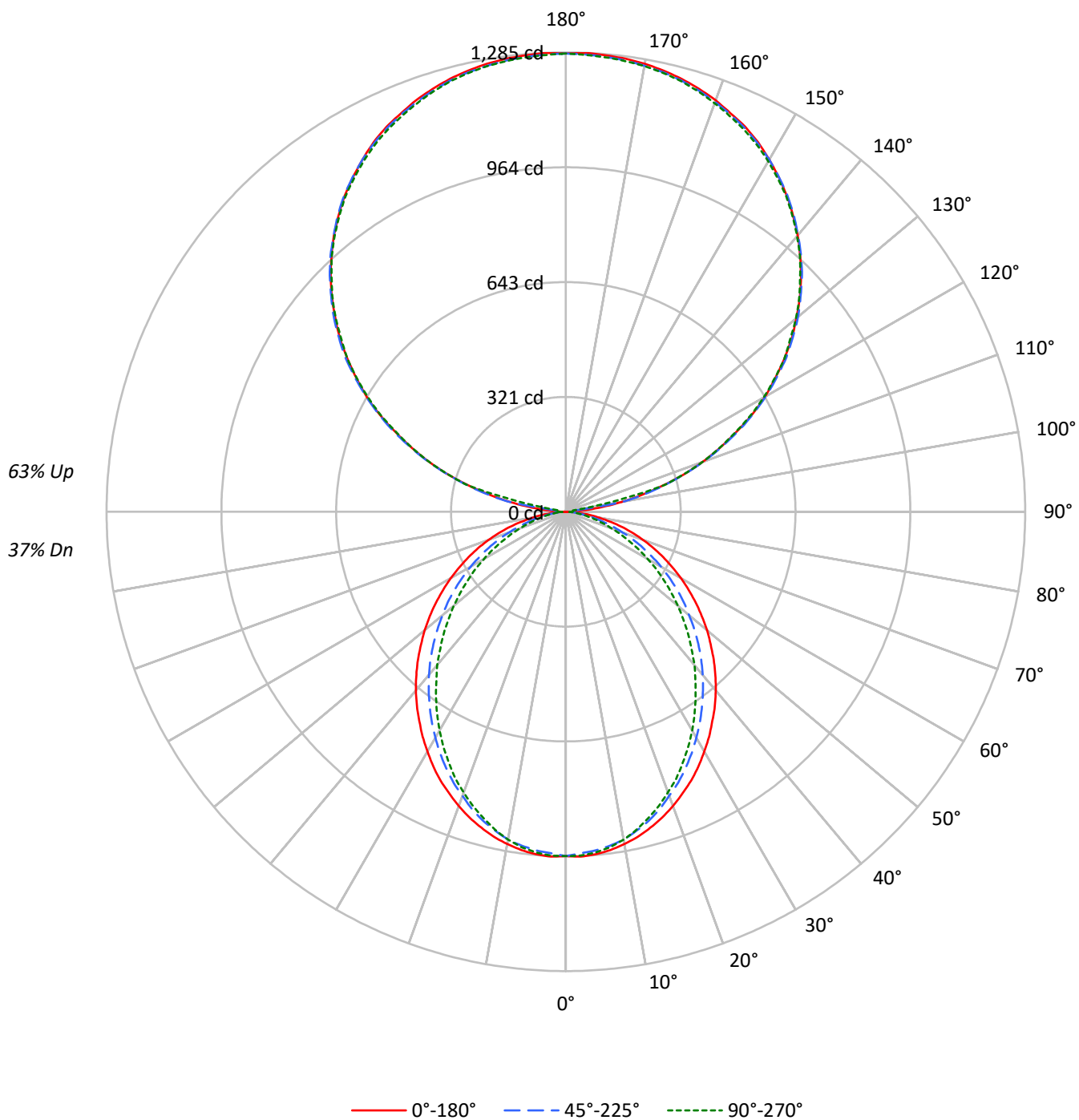
Lumens per Lamp: N/A
Luminaire Lumens: 6216.1 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	30	10
RCR																				
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37		
1	95	91	87	84	86	82	79	76	67	65	63	52	51	50	39	38	37	31		
2	87	79	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26		
3	79	70	63	57	71	64	58	53	52	47	44	41	38	35	31	29	27	23		
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19		
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17		
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15		
7	56	45	37	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13		
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12		
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	17	15	13	11		
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6172	6172	6172
5°	6173	6018	6028
10°	6113	5867	5815
15°	6026	5654	5535
20°	5919	5399	5241
25°	5797	5149	4926
30°	5646	4876	4595
35°	5492	4597	4244
40°	5346	4311	3900
45°	5171	4002	3541
50°	4994	3675	3175
55°	4787	3352	2796
60°	4575	2983	2402
65°	4324	2571	1979
70°	4030	2093	1557
75°	3625	1574	1135
80°	3057	1020	765
85°	2287	548	431

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5171 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	1.5
10°-20°	253.4	4.1
20°-30°	367.4	5.9
30°-40°	418.6	6.7
40°-50°	408.0	6.6
50°-60°	343.3	5.5
60°-70°	240.6	3.9
70°-80°	123.3	2.0
80°-90°	32.7	0.5
90°-100°	43.5	0.7
100°-110°	289.3	4.7
110°-120°	521.0	8.4
120°-130°	668.8	10.8
130°-140°	719.3	11.6
140°-150°	675.1	10.9
150°-160°	546.1	8.8
160°-170°	353.2	5.7
170°-180°	121.8	2.0
0°-30°	711.4	11.4
0°-40°	1130.0	18.2
0°-60°	1881.3	30.3
0°-90°	2277.9	36.6
90°-120°	853.9	13.7
90°-150°	2917.1	46.9
90°-180°	3938.0	63.4
0°-180°	6216.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	963	963	963	963	963	
5°	962	959	951	958	957	91
15°	915	910	895	894	888	258
25°	830	818	792	782	774	382
35°	714	697	664	643	633	447
45°	585	564	524	495	484	451
55°	444	420	380	347	335	397
65°	300	276	237	208	197	298
75°	160	138	108	92	87	169
85°	40	27	23	23	22	44
90°	1	9	15	20	23	5
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°	963.3	963.3	963.3	963.3	963.3
2.5°	965.5	963.3	956.1	963.3	962.6
5°	961.9	959.0	951.0	958.2	956.8
7.5°	954.6	951.7	942.2	948.0	946.6
10°	943.7	941.5	931.3	933.5	931.3
12.5°	931.3	928.4	913.9	915.3	911.7
15°	914.6	910.2	894.9	894.2	887.7
17.5°	897.1	890.6	872.4	868.7	863.6
20°	876.0	868.7	845.5	841.8	835.3
22.5°	852.7	845.5	820.7	812.7	807.6
25°	829.5	818.5	791.6	782.2	774.2
27.5°	803.3	790.2	761.8	749.4	741.4
30°	774.2	760.3	729.8	713.0	706.5
32.5°	745.8	729.0	697.8	678.8	670.1
35°	714.5	697.0	664.3	643.2	633.0
37.5°	684.7	663.6	630.1	605.4	595.2
40°	652.6	630.8	595.9	568.2	559.5
42.5°	619.2	596.6	560.2	534.1	520.2
45°	585.0	563.9	523.9	494.8	483.8
47.5°	549.3	527.5	487.5	457.7	445.3
50°	515.9	491.8	450.4	419.8	408.9
52.5°	479.5	454.7	416.2	382.7	371.8
55°	443.8	420.5	379.8	347.1	335.4
57.5°	407.4	382.7	343.4	311.4	301.2
60°	372.5	347.1	307.8	275.8	264.8
62.5°	335.4	311.4	271.4	242.3	231.4
65°	300.5	275.8	237.2	208.1	197.2
67.5°	265.6	240.8	203.7	176.1	167.3
70°	229.9	205.2	168.8	146.2	137.5
72.5°	195.0	171.0	137.5	117.1	112.0
75°	160.1	138.2	107.7	91.7	86.6
77.5°	124.4	107.0	81.5	69.1	64.8
80°	94.6	77.1	56.8	50.2	48.7
82.5°	65.5	50.2	37.8	35.7	34.9
85°	40.0	26.9	23.3	22.6	21.8
87.5°	16.7	11.6	10.9	10.9	10.2
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)