

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: P1027973

Luminaire Tested: S125DIP-B610D1090UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027973
REPORT IS A COMBINATION OF REPORTS P1002122 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1090UB27-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

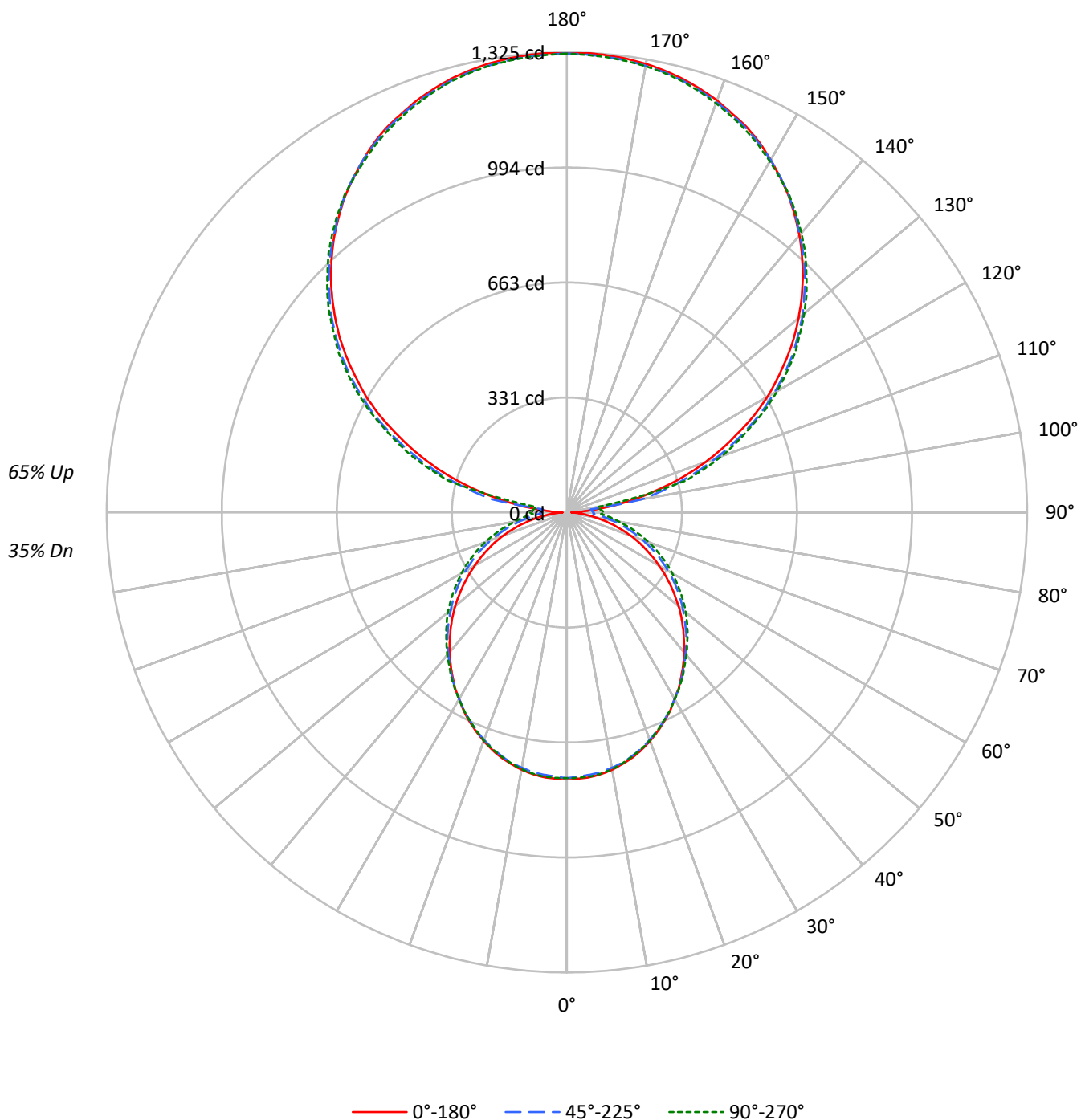
Lumens per Lamp: N/A
Luminaire Lumens: 6433.1 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	103	103	103	103	93	93	93	93	75	75	75	58	58	58	42	42	42
1	94	89	85	82	85	81	77	74	65	62	60	50	48	47	36	35	34
2	85	78	72	66	77	70	65	61	56	53	49	44	41	39	32	30	29
3	78	68	61	55	70	62	55	50	50	45	41	38	35	33	28	26	24
4	71	60	52	46	64	54	48	42	44	39	35	34	30	28	25	22	21
5	65	53	45	39	58	48	41	36	39	34	30	30	27	24	22	20	18
6	60	48	40	34	54	43	36	31	35	30	26	27	24	21	20	18	16
7	55	43	35	30	49	39	32	27	32	26	23	25	21	18	18	16	14
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	12
9	47	35	28	23	43	32	26	21	26	21	18	21	17	14	15	13	11
10	44	32	25	20	40	30	23	19	24	19	16	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4902	4902	4902
5°	4910	4799	4811
10°	4873	4701	4688
15°	4814	4588	4537
20°	4733	4450	4386
25°	4639	4303	4205
30°	4524	4144	4039
35°	4416	3996	3887
40°	4307	3842	3733
45°	4184	3708	3596
50°	4065	3561	3471
55°	3924	3423	3326
60°	3768	3264	3178
65°	3604	3097	3011
70°	3418	2874	2837
75°	3125	2652	2625
80°	2740	2384	2391
85°	2361	2170	2268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4184 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.1
10°-20°	205.5	3.2
20°-30°	305.6	4.8
30°-40°	361.9	5.6
40°-50°	374.2	5.8
50°-60°	344.7	5.4
60°-70°	278.7	4.3
70°-80°	186.5	2.9
80°-90°	98.4	1.5
90°-100°	99.2	1.5
100°-110°	338.4	5.3
110°-120°	564.1	8.8
120°-130°	704.9	11.0
130°-140°	748.4	11.6
140°-150°	697.5	10.8
150°-160°	563.1	8.8
160°-170°	364.2	5.7
170°-180°	125.6	2.0
0°-30°	583.5	9.1
0°-40°	945.4	14.7
0°-60°	1664.3	25.9
0°-90°	2227.8	34.6
90°-120°	1001.7	15.6
90°-150°	3152.5	49.0
90°-180°	4205.0	65.4
0°-180°	6433.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	765	764	758	764	764	73
15°	731	731	726	731	728	206
25°	664	666	662	664	661	306
35°	574	580	578	580	580	360
45°	473	482	485	490	491	365
55°	364	376	388	396	399	325
65°	250	268	286	297	300	249
75°	138	158	182	196	200	146
85°	41	66	92	109	115	43
90°	13	45	77	99	108	11
95°	66	82	70	92	97	76
105°	295	311	333	348	353	312
115°	546	556	576	586	584	541
125°	772	778	794	802	802	690
135°	961	966	969	977	975	741
145°	1113	1114	1114	1119	1116	696
155°	1225	1219	1221	1224	1216	564
165°	1293	1287	1288	1294	1286	365
175°	1322	1316	1317	1325	1316	126
180°	1322	1322	1322	1322	1322	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	765.1	765.1	765.1	765.1	765.1
2.5°	767.3	765.8	760.6	765.8	765.1
5°	765.1	763.6	758.3	764.3	763.6
7.5°	759.8	759.1	753.8	759.1	758.3
10°	752.3	752.3	746.3	751.6	750.8
12.5°	741.8	742.6	738.1	741.8	739.6
15°	730.6	731.3	726.1	730.6	727.6
17.5°	716.3	717.8	712.5	716.3	714.0
20°	700.5	702.0	696.8	699.0	699.0
22.5°	682.5	685.5	679.5	682.5	680.3
25°	663.8	666.0	661.5	664.5	660.8
27.5°	643.5	646.5	641.3	643.5	642.0
30°	620.3	624.8	620.3	621.8	621.0
32.5°	599.3	603.0	600.0	601.5	600.8
35°	574.5	579.8	577.5	579.8	579.8
37.5°	550.5	555.0	554.3	557.3	556.5
40°	525.8	531.8	531.0	534.0	535.5
42.5°	498.8	507.0	509.3	513.0	513.0
45°	473.3	481.5	485.3	490.5	491.3
47.5°	447.0	454.5	460.5	468.0	469.5
50°	420.0	428.3	436.5	444.8	447.0
52.5°	391.5	402.0	412.5	421.5	423.0
55°	363.8	375.8	387.8	396.0	399.0
57.5°	335.3	349.5	363.0	372.0	374.3
60°	306.8	321.8	336.8	348.0	350.3
62.5°	279.0	294.0	310.5	323.3	326.3
65°	250.5	267.8	285.8	297.0	300.0
67.5°	224.3	240.8	258.8	272.3	276.0
70°	195.0	212.3	231.8	246.0	250.5
72.5°	166.5	184.5	206.3	222.0	225.0
75°	138.0	157.5	181.5	196.5	200.3
77.5°	110.3	132.8	155.3	171.8	174.8
80°	84.8	107.3	132.8	149.3	152.3
82.5°	61.5	85.5	111.8	127.5	133.5
85°	41.3	66.0	92.3	108.8	114.8
87.5°	26.3	50.3	75.8	93.0	98.3
90°	13.0	44.8	77.2	99.4	107.5
92.5°	29.1	42.1	74.2	95.6	101.9
95°	65.7	82.2	70.5	91.9	97.1
97.5°	113.9	137.7	69.4	87.1	93.4
100°	172.0	190.6	218.5	88.3	88.9
102.5°	230.9	249.2	274.3	291.3	213.5
105°	294.9	310.8	333.3	348.3	352.6
107.5°	360.8	371.3	395.0	411.0	411.6
110°	424.7	433.7	456.7	468.0	474.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	485.5	495.1	516.4	526.0	529.2
115°	545.5	555.7	576.1	585.7	584.3
117.5°	608.5	612.2	634.9	641.7	645.1
120°	667.3	668.5	688.7	699.5	699.1
122.5°	718.4	724.1	741.6	751.6	750.3
125°	772.3	778.5	793.5	801.6	802.3
127.5°	823.6	827.7	839.5	848.7	845.4
130°	870.6	874.7	886.2	893.7	892.6
132.5°	916.8	922.7	927.3	937.8	935.9
135°	960.9	966.1	969.4	977.2	975.0
137.5°	1002.1	1007.3	1008.3	1017.3	1015.4
140°	1041.6	1043.5	1043.3	1053.5	1050.6
142.5°	1077.8	1078.0	1080.0	1086.8	1083.9
145°	1113.1	1114.3	1114.3	1119.1	1116.2
147.5°	1143.7	1143.7	1144.7	1147.1	1141.8
150°	1173.1	1171.1	1173.1	1175.0	1168.0
152.5°	1201.5	1196.6	1198.6	1200.5	1193.7
155°	1225.0	1219.1	1221.1	1224.0	1216.2
157.5°	1243.6	1240.7	1240.7	1243.6	1235.8
160°	1263.2	1257.4	1258.3	1262.3	1254.4
162.5°	1278.9	1273.0	1274.0	1279.9	1271.1
165°	1292.6	1286.8	1287.7	1293.6	1285.8
167.5°	1303.4	1297.5	1298.5	1305.4	1296.6
170°	1312.2	1305.4	1306.4	1314.2	1305.4
172.5°	1318.1	1311.3	1313.2	1320.1	1311.3
175°	1322.0	1316.2	1317.1	1325.0	1316.2
177.5°	1325.0	1319.1	1320.1	1326.9	1319.1
180°	1322.0	1322.0	1322.0	1322.0	1322.0

(END OF REPORT)