

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: P1027977

Luminaire Tested: S125DIP-B610D1090UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027977
REPORT IS A COMBINATION OF REPORTS P1002126 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-F1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

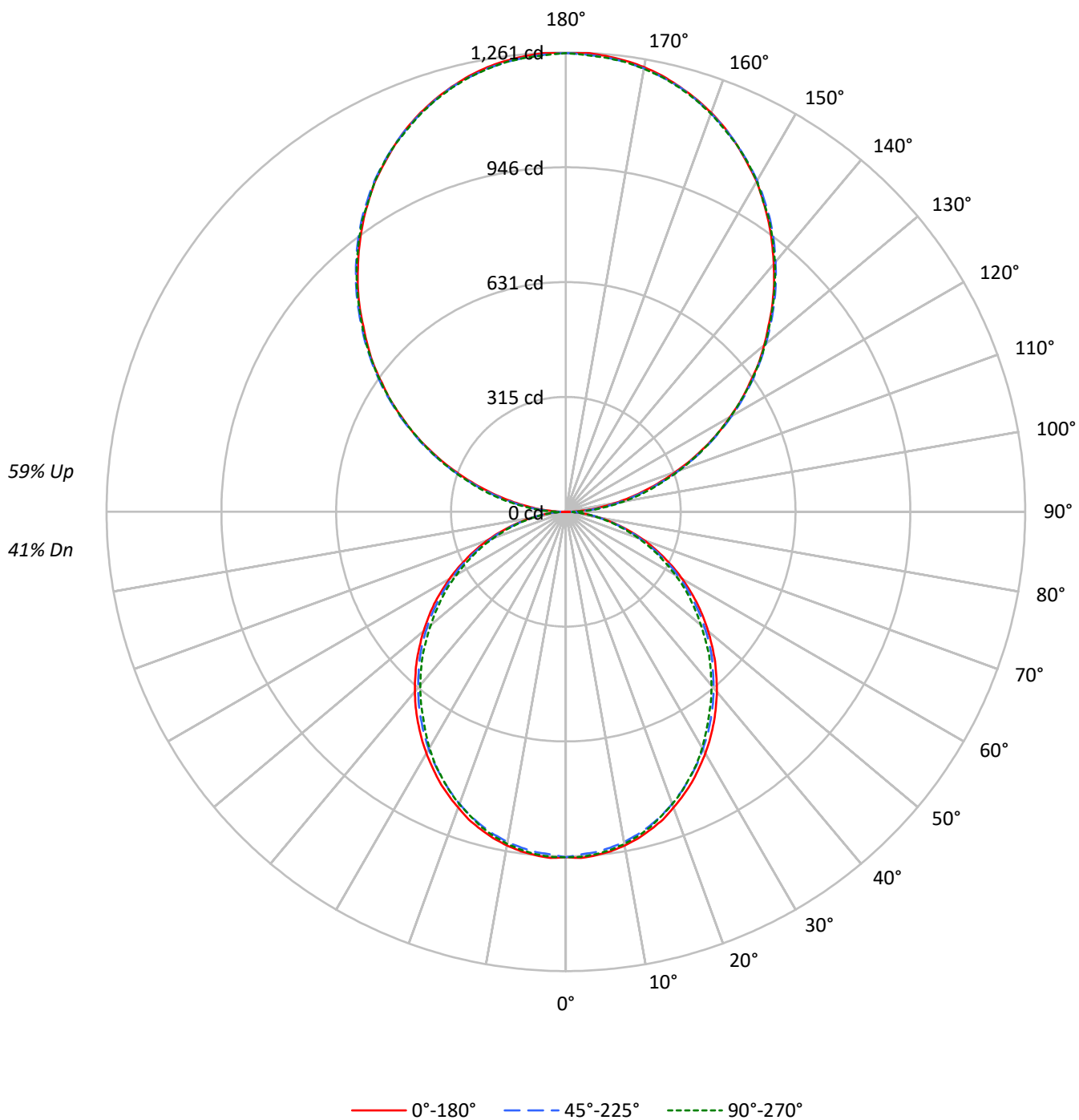
Lumens per Lamp: N/A
Luminaire Lumens: 5984.0 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	105	105	105	105	96	96	96	96	78	78	78	63	63	63	48	48	48
1	96	91	88	84	87	84	80	77	69	66	64	55	53	52	42	41	40
2	87	80	74	69	79	73	68	63	60	56	53	48	46	43	37	36	34
3	79	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25
5	67	55	47	41	61	51	44	38	42	37	33	34	30	27	27	24	22
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17
8	53	40	33	27	48	37	30	26	31	26	22	25	22	19	20	17	15
9	49	37	29	24	45	34	27	23	29	23	20	23	20	17	19	16	14
10	46	34	27	22	42	31	25	20	26	21	18	22	18	15	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6075	5934	5946
10°	6025	5799	5780
15°	5947	5636	5585
20°	5839	5447	5362
25°	5725	5241	5122
30°	5586	5027	4870
35°	5438	4802	4587
40°	5285	4564	4335
45°	5119	4332	4068
50°	4937	4070	3757
55°	4757	3781	3470
60°	4542	3475	3137
65°	4285	3122	2793
70°	4025	2716	2396
75°	3584	2235	1937
80°	3054	1670	1425
85°	2361	988	786

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5119 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	1.5
10°-20°	252.7	4.2
20°-30°	373.1	6.2
30°-40°	435.3	7.3
40°-50°	437.2	7.3
50°-60°	383.8	6.4
60°-70°	285.9	4.8
70°-80°	163.3	2.7
80°-90°	49.1	0.8
90°-100°	83.7	1.4
100°-110°	248.7	4.2
110°-120°	421.8	7.0
120°-130°	555.3	9.3
130°-140°	622.3	10.4
140°-150°	610.0	10.2
150°-160°	512.4	8.6
160°-170°	340.6	5.7
170°-180°	119.2	2.0
0°-30°	715.3	12.0
0°-40°	1150.7	19.2
0°-60°	1971.7	32.9
0°-90°	2470.0	41.3
90°-120°	754.3	12.6
90°-150°	2541.9	42.5
90°-180°	3514.0	58.7
0°-180°	5984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	947	945	938	944	944	90
15°	902	900	892	896	896	254
25°	819	815	806	807	805	377
35°	707	704	694	690	684	443
45°	579	576	567	558	556	446
55°	441	439	428	422	416	394
65°	298	296	288	281	278	295
75°	158	157	153	151	148	169
85°	41	42	42	41	40	45
90°	1	9	16	21	24	7
95°	64	66	75	82	84	67
105°	223	228	234	240	243	238
115°	422	426	428	427	426	418
125°	616	622	623	621	620	552
135°	802	807	808	808	804	618
145°	971	975	978	978	975	607
155°	1111	1111	1112	1116	1111	512
165°	1208	1206	1207	1211	1205	341
175°	1256	1252	1252	1258	1251	119
180°	1259	1259	1259	1259	1259	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	948.2	948.2	948.2	948.2	948.2
2.5°	951.2	949.0	941.5	949.0	948.2
5°	946.7	945.2	937.7	944.5	943.7
7.5°	940.0	938.5	930.2	937.0	936.2
10°	930.2	928.7	920.5	926.5	925.7
12.5°	918.2	915.2	907.7	912.2	912.2
15°	902.5	900.2	892.0	895.7	895.7
17.5°	886.0	882.2	874.0	878.5	874.7
20°	864.2	862.7	853.0	858.2	854.5
22.5°	842.5	839.5	830.4	833.4	831.2
25°	819.2	815.4	805.7	807.2	804.9
27.5°	792.2	789.9	780.2	780.9	778.7
30°	765.9	763.7	752.4	750.9	748.7
32.5°	737.4	733.7	723.9	720.9	716.4
35°	707.4	704.4	693.9	690.2	684.2
37.5°	676.7	672.9	663.2	657.9	654.2
40°	645.2	641.4	630.9	624.1	621.9
42.5°	611.4	608.4	597.9	591.9	588.1
45°	579.1	576.1	567.1	558.1	555.9
47.5°	543.9	544.6	533.4	524.4	519.1
50°	510.1	507.9	498.9	489.1	483.9
52.5°	475.6	474.1	464.4	456.1	450.1
55°	441.1	438.9	428.4	421.6	416.3
57.5°	404.3	403.6	394.6	385.6	383.3
60°	369.8	366.8	358.6	351.1	345.8
62.5°	333.8	331.6	324.8	316.6	312.8
65°	297.8	296.3	288.1	281.3	278.3
67.5°	262.6	259.6	253.6	247.6	246.1
70°	229.6	225.8	219.1	214.6	211.6
72.5°	193.5	191.3	187.5	182.3	179.3
75°	158.3	156.8	153.0	150.8	147.8
77.5°	125.3	124.5	122.3	120.8	118.5
80°	94.5	94.5	93.0	92.3	90.8
82.5°	67.5	66.0	66.0	64.5	64.5
85°	41.3	42.0	42.0	41.3	39.8
87.5°	20.3	20.3	19.5	19.5	18.0
90°	1.0	8.8	15.7	20.6	23.5
92.5°	29.4	34.3	43.1	50.0	51.9
95°	63.7	65.6	75.4	82.3	84.3
97.5°	98.0	99.0	112.7	118.6	119.5
100°	137.2	137.2	149.9	158.7	160.7
102.5°	179.3	184.2	189.1	198.9	201.8
105°	223.4	228.3	234.2	240.1	243.0
107.5°	271.4	276.3	281.2	284.2	284.2
110°	321.4	326.3	329.2	332.2	331.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	372.3	374.3	378.2	379.2	377.2
115°	422.3	426.2	428.2	427.2	426.2
117.5°	473.3	474.2	476.2	477.2	473.3
120°	520.3	525.2	526.2	526.2	522.3
122.5°	571.2	572.2	575.2	574.2	571.2
125°	616.3	622.2	623.2	621.2	620.2
127.5°	666.3	669.2	670.2	669.2	667.3
130°	710.4	715.3	717.2	716.3	714.3
132.5°	754.5	763.3	762.3	761.3	758.4
135°	801.5	807.4	808.4	808.4	804.5
137.5°	845.6	851.5	853.4	854.4	849.5
140°	887.7	892.6	895.6	897.5	892.6
142.5°	929.9	933.8	937.7	938.7	933.8
145°	971.0	974.9	977.9	977.9	974.9
147.5°	1009.2	1012.2	1014.1	1017.1	1009.2
150°	1047.5	1046.5	1050.4	1050.4	1048.4
152.5°	1078.8	1080.8	1081.7	1084.7	1080.8
155°	1111.1	1111.1	1112.1	1116.0	1111.1
157.5°	1140.5	1138.6	1139.6	1143.5	1136.6
160°	1166.0	1163.1	1164.1	1168.0	1163.1
162.5°	1188.5	1186.6	1186.6	1191.5	1185.6
165°	1208.1	1206.2	1207.2	1211.1	1205.2
167.5°	1225.8	1221.9	1221.9	1227.7	1221.9
170°	1239.5	1235.6	1235.6	1241.5	1234.6
172.5°	1249.3	1245.4	1245.4	1251.3	1245.4
175°	1256.2	1252.2	1252.2	1258.1	1251.3
177.5°	1261.1	1257.1	1256.2	1262.0	1255.2
180°	1259.1	1259.1	1259.1	1259.1	1259.1

(END OF REPORT)