

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: P1027974

Luminaire Tested: S125DIP-B610D1090UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027974
REPORT IS A COMBINATION OF REPORTS P1002123 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-D1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

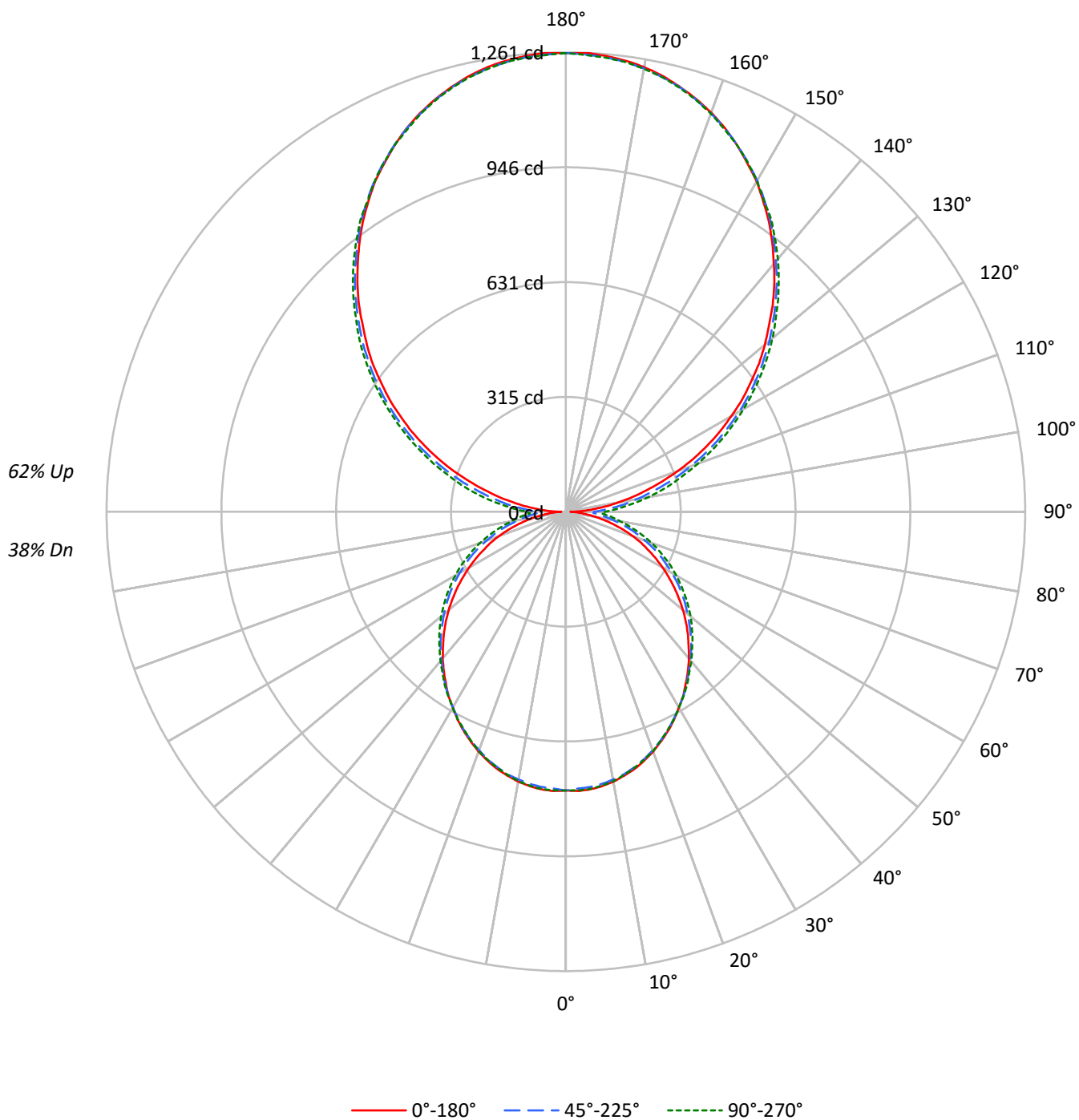
Lumens per Lamp: N/A
Luminaire Lumens: 5886.1 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45
1	95	90	86	82	86	82	78	75	66	64	62	52	50	49	39	38	37
2	86	78	72	67	77	71	66	61	58	54	51	45	43	40	34	32	31
3	78	69	61	55	70	62	56	51	51	46	42	40	37	34	30	28	26
4	71	60	53	47	64	55	48	43	45	40	36	35	32	29	27	24	22
5	65	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19
6	60	48	40	34	54	44	37	32	36	31	27	28	25	22	22	19	17
7	55	43	35	30	50	40	33	28	32	27	23	26	22	19	20	17	15
8	51	39	31	26	46	36	29	24	30	24	21	24	20	17	18	15	13
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12
10	45	33	25	21	40	30	24	19	25	20	16	20	16	14	15	13	11

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	1.2
10°-20°	205.5	3.5
20°-30°	305.6	5.2
30°-40°	361.9	6.1
40°-50°	374.2	6.4
50°-60°	344.7	5.9
60°-70°	278.7	4.7
70°-80°	186.5	3.2
80°-90°	98.4	1.7
90°-100°	138.0	2.3
100°-110°	288.8	4.9
110°-120°	448.7	7.6
120°-130°	570.5	9.7
130°-140°	629.0	10.7
140°-150°	611.3	10.4
150°-160°	512.4	8.7
160°-170°	340.6	5.8
170°-180°	119.2	2.0
0°-30°	583.5	9.9
0°-40°	945.4	16.1
0°-60°	1664.3	28.3
0°-90°	2227.8	37.8
90°-120°	875.5	14.9
90°-150°	2686.2	45.6
90°-180°	3658.0	62.1
0°-180°	5886.1	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	13
95°	74	95	130	154	161	74
105°	230	247	276	296	304	245
115°	427	436	458	470	474	422
125°	619	624	640	650	653	555
135°	803	808	814	824	824	619
145°	972	975	978	982	982	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°	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°	39.9	66.6	101.6	125.0	132.2
95°	73.5	94.9	130.2	153.6	160.8
97.5°	107.0	126.0	164.5	186.1	192.3
100°	145.5	161.2	197.9	222.5	229.0
102.5°	186.8	206.0	234.1	258.9	266.3
105°	230.2	247.1	275.5	296.4	304.5
107.5°	277.4	292.8	319.5	337.5	342.0
110°	326.7	340.6	364.5	381.7	386.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	377.6	386.3	410.5	425.0	428.2
115°	426.8	436.0	457.5	470.0	473.5
117.5°	477.1	481.7	502.5	516.2	517.6
120°	524.1	531.2	549.5	562.2	562.8
122.5°	574.2	576.0	595.5	606.5	608.0
125°	619.3	624.5	640.5	650.5	653.2
127.5°	668.6	670.7	684.5	694.7	697.3
130°	712.7	716.8	729.2	738.8	740.6
132.5°	756.0	764.8	771.3	780.8	780.9
135°	803.0	808.2	814.4	824.2	824.0
137.5°	847.1	852.3	857.2	867.2	865.3
140°	888.5	893.4	897.1	907.3	905.4
142.5°	930.7	933.8	937.7	945.5	943.6
145°	971.8	974.9	977.9	981.7	981.7
147.5°	1009.2	1012.2	1014.1	1018.6	1012.2
150°	1047.5	1046.5	1050.4	1050.4	1049.2
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)