

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: P1027474

Luminaire Tested: S125DIP-B1090D610UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027474
REPORT IS A COMBINATION OF REPORTS P1001449 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D610UB40-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

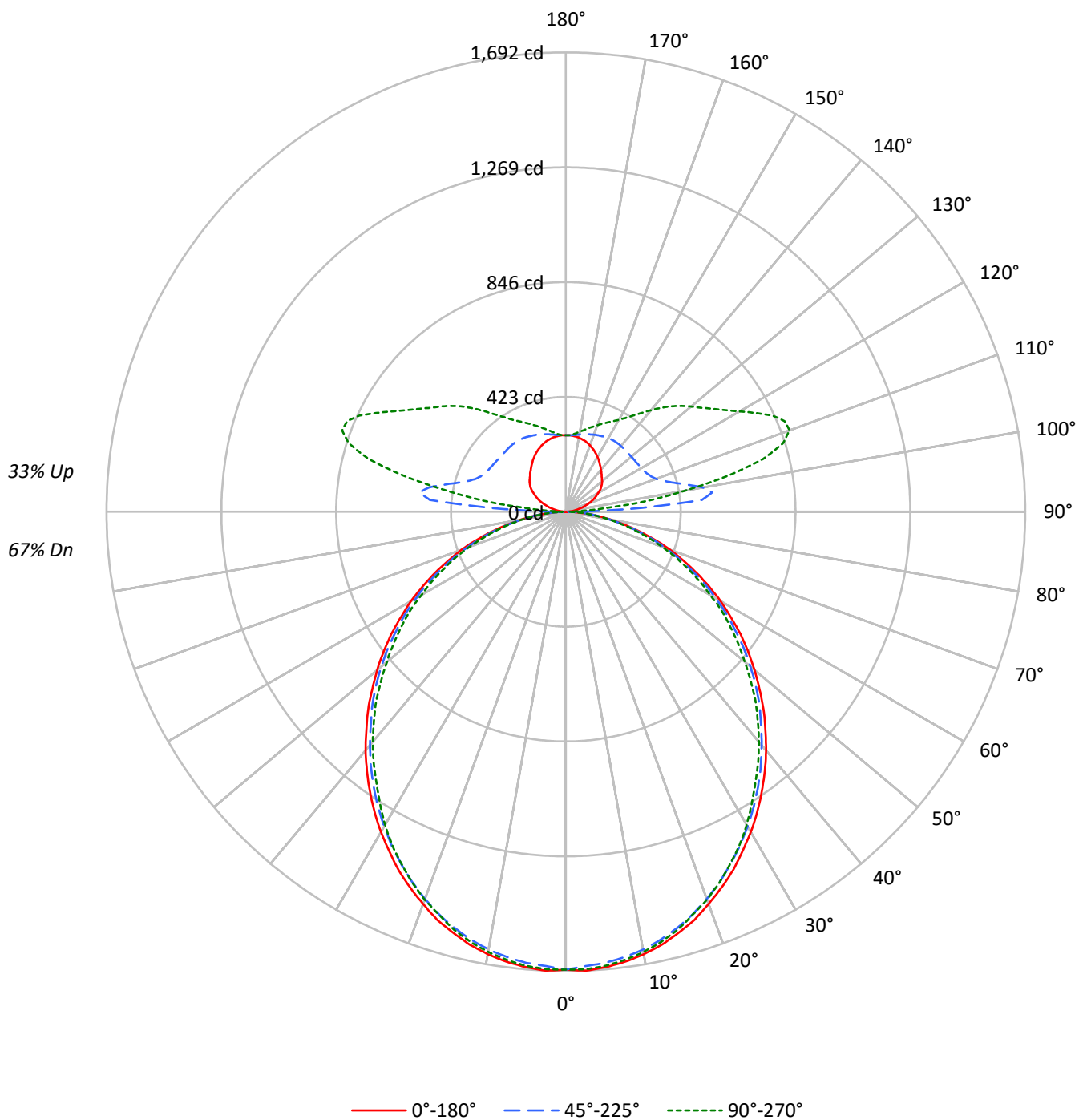
Lumens per Lamp: N/A
Luminaire Lumens: 6512.3 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
Input Voltage (V):
Input Current (A_{in}): 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

TEST NUMBER: P1027474

CATALOG NUMBER: S125DIP-B1090D610UB40-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1027474

CATALOG NUMBER: S125DIP-B1090D610UB40-4F0-XX-W2A-F4

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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72
1	102	97	93	89	96	92	88	85	82	79	76	72	70	68	64	62	61
2	93	85	78	73	87	80	75	70	71	67	63	63	60	57	56	53	51
3	84	75	67	61	79	71	64	58	63	58	53	56	52	48	50	46	44
4	77	66	58	52	73	63	55	49	56	50	45	50	45	41	44	41	37
5	71	59	51	44	67	56	48	43	50	44	39	45	40	36	40	36	33
6	65	53	45	39	62	50	43	37	45	39	34	41	35	32	36	32	29
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	26
8	56	44	36	30	53	42	34	29	38	31	27	34	29	25	30	26	23
9	53	40	32	27	50	38	31	26	35	29	24	31	26	23	28	24	21
10	49	37	29	24	46	35	28	24	32	26	22	29	24	20	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10807	10807	10807
5°	10807	10556	10576
10°	10717	10314	10281
15°	10577	10024	9935
20°	10387	9689	9537
25°	10183	9322	9111
30°	9936	8941	8662
35°	9673	8542	8159
40°	9401	8119	7711
45°	9107	7707	7237
50°	8783	7240	6683
55°	8462	6724	6174
60°	8081	6181	5582
65°	7623	5553	4969
70°	7157	4830	4262
75°	6376	3977	3446
80°	5432	2971	2535
85°	4197	1756	1397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 9107 cd/sqm

TEST NUMBER: P1027474

CATALOG NUMBER: S125DIP-B1090D610UB40-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	2.4
10°-20°	449.6	6.9
20°-30°	663.7	10.2
30°-40°	774.4	11.9
40°-50°	777.7	11.9
50°-60°	682.7	10.5
60°-70°	508.5	7.8
70°-80°	290.4	4.5
80°-90°	85.0	1.3
90°-100°	212.2	3.3
100°-110°	440.8	6.8
110°-120°	411.8	6.3
120°-130°	333.2	5.1
130°-140°	267.7	4.1
140°-150°	202.1	3.1
150°-160°	142.3	2.2
160°-170°	83.9	1.3
170°-180°	27.3	0.4
0°-30°	1272.4	19.5
0°-40°	2046.8	31.4
0°-60°	3507.2	53.9
0°-90°	4391.1	67.4
90°-120°	1064.8	16.4
90°-150°	1867.8	28.7
90°-180°	2121.0	32.6
0°-180°	6512.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1684	1681	1668	1680	1679	160
15°	1605	1601	1587	1593	1593	453
25°	1457	1450	1433	1436	1432	670
35°	1258	1253	1234	1228	1217	787
45°	1030	1025	1009	993	989	794
55°	785	781	762	750	741	700
65°	530	527	512	500	495	525
75°	282	279	272	268	263	300
85°	73	75	75	73	71	80
90°	1	5	9	12	13	6
95°	19	55	503	228	134	20
105°	64	90	412	811	753	68
115°	115	138	331	713	839	113
125°	159	186	317	567	661	141
135°	186	224	315	475	549	145
145°	217	249	316	394	433	136
155°	248	266	308	348	363	114
165°	270	278	296	313	318	76
175°	281	281	284	287	286	27
180°	282	282	282	282	282	

TEST NUMBER: P1027474

CATALOG NUMBER: S125DIP-B1090D610UB40-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1686.7	1686.7	1686.7	1686.7	1686.7
2.5°	1692.0	1688.0	1674.7	1688.0	1686.7
5°	1684.0	1681.3	1668.0	1680.0	1678.7
7.5°	1672.0	1669.3	1654.6	1666.7	1665.3
10°	1654.6	1652.0	1637.3	1648.0	1646.6
12.5°	1633.3	1628.0	1614.6	1622.6	1622.6
15°	1605.3	1601.3	1586.6	1593.3	1593.3
17.5°	1575.9	1569.2	1554.6	1562.6	1555.9
20°	1537.2	1534.6	1517.2	1526.5	1519.9
22.5°	1498.5	1493.2	1477.2	1482.5	1478.5
25°	1457.2	1450.5	1433.1	1435.8	1431.8
27.5°	1409.1	1405.1	1387.8	1389.1	1385.1
30°	1362.4	1358.4	1338.4	1335.7	1331.7
32.5°	1311.7	1305.0	1287.7	1282.4	1274.3
35°	1258.3	1253.0	1234.3	1227.6	1217.0
37.5°	1203.6	1197.0	1179.6	1170.3	1163.6
40°	1147.6	1140.9	1122.2	1110.2	1106.2
42.5°	1087.5	1082.2	1063.5	1052.8	1046.2
45°	1030.2	1024.8	1008.8	992.8	988.8
47.5°	967.4	968.8	948.8	932.7	923.4
50°	907.4	903.4	887.4	870.0	860.7
52.5°	846.0	843.3	826.0	811.3	800.6
55°	784.6	780.6	761.9	749.9	740.6
57.5°	719.2	717.9	701.9	685.9	681.9
60°	657.9	652.5	637.8	624.5	615.2
62.5°	593.8	589.8	577.8	563.1	556.4
65°	529.8	527.1	512.4	500.4	495.1
67.5°	467.0	461.7	451.0	440.4	437.7
70°	408.3	401.7	389.6	381.6	376.3
72.5°	344.3	340.3	333.6	324.3	318.9
75°	281.6	278.9	272.2	268.2	262.9
77.5°	222.8	221.5	217.5	214.8	210.8
80°	168.1	168.1	165.5	164.1	161.5
82.5°	120.1	117.4	117.4	114.8	114.8
85°	73.4	74.7	74.7	73.4	70.7
87.5°	36.0	36.0	34.7	34.7	32.0
90°	0.6	5.1	9.1	12.0	13.1
92.5°	8.5	46.6	226.7	60.5	42.0
95°	18.8	55.4	503.4	228.4	133.5
97.5°	29.0	60.0	543.8	412.5	292.6
100°	39.8	68.8	513.1	583.0	443.2
102.5°	51.7	78.7	459.1	727.3	611.4
105°	64.2	89.8	412.0	811.2	752.9
107.5°	76.1	101.4	376.7	834.7	838.1
110°	89.2	113.6	353.4	812.2	876.8

TEST NUMBER: P1027474

CATALOG NUMBER: S125DIP-B1090D610UB40-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	102.3	125.9	339.8	765.3	872.2
115°	114.8	138.4	330.7	712.8	838.7
117.5°	126.1	151.2	325.6	665.1	788.1
120°	137.5	163.4	322.2	625.0	739.3
122.5°	149.4	175.3	319.3	593.0	696.1
125°	159.1	186.4	317.1	567.0	660.8
127.5°	167.1	197.2	315.9	544.9	628.5
130°	174.4	207.4	314.8	522.4	602.9
132.5°	180.1	216.5	314.8	498.3	577.3
135°	186.4	224.2	314.8	475.3	548.9
137.5°	194.3	231.2	315.4	451.2	519.4
140°	201.2	237.2	315.9	429.0	488.1
142.5°	209.1	242.9	316.5	410.0	459.1
145°	217.1	248.6	315.9	393.5	433.0
147.5°	225.6	253.7	314.8	379.3	409.7
150°	233.0	258.2	313.1	367.6	390.9
152.5°	240.9	262.8	310.8	357.7	376.2
155°	247.7	266.5	308.0	348.0	363.1
157.5°	254.0	270.2	305.1	339.0	351.2
160°	260.2	273.0	302.3	329.8	339.2
162.5°	265.4	275.9	298.9	321.6	328.4
165°	270.5	277.9	295.5	313.4	318.2
167.5°	273.9	279.0	292.1	305.7	308.5
170°	277.3	280.5	289.2	298.3	300.0
172.5°	279.6	281.0	285.8	292.4	292.1
175°	281.3	281.3	283.5	287.0	285.8
177.5°	282.4	281.3	281.8	283.5	281.8
180°	281.8	281.8	281.8	281.8	281.8

(END OF REPORT)