

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: P1027444

Luminaire Tested: S125DIP-B1090D610UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027444
REPORT IS A COMBINATION OF REPORTS P1001404 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D610UB27-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

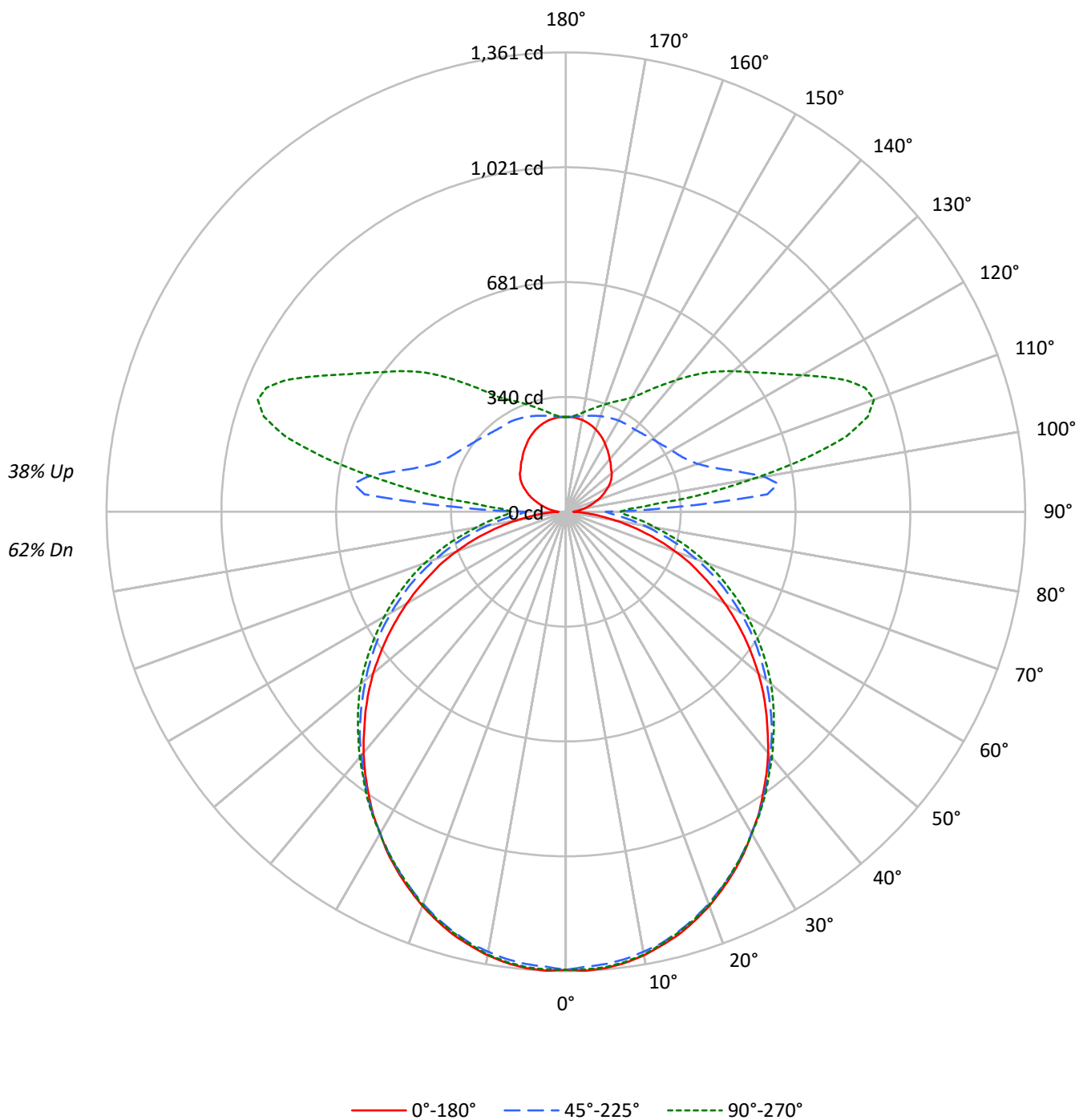
Lumens per Lamp: N/A
Luminaire Lumens: 6320.4 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68
1	100	95	91	87	93	89	85	82	78	75	72	68	66	64	58	57	55
2	90	82	76	70	84	77	71	66	68	63	59	59	55	52	51	48	46
3	82	72	64	58	77	68	61	55	59	54	49	52	48	44	45	41	39
4	75	64	55	49	70	60	52	46	53	47	42	46	41	37	40	36	33
5	69	57	48	42	64	53	46	40	47	41	36	41	36	32	36	32	29
6	64	51	42	36	59	48	40	35	42	36	31	37	32	28	32	28	25
7	59	46	38	32	55	43	36	30	38	32	28	34	29	25	30	25	22
8	55	42	34	28	51	39	32	27	35	29	25	31	26	22	27	23	20
9	51	38	30	25	48	36	29	24	32	26	22	29	24	20	25	21	18
10	48	35	27	23	44	33	26	22	30	24	20	26	22	18	23	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8695	8695	8695
5°	8709	8513	8533
10°	8644	8339	8315
15°	8539	8137	8047
20°	8397	7893	7780
25°	8228	7634	7458
30°	8024	7351	7165
35°	7834	7090	6895
40°	7641	6815	6623
45°	7421	6576	6378
50°	7212	6317	6157
55°	6960	6071	5900
60°	6684	5790	5637
65°	6394	5493	5341
70°	6063	5096	5033
75°	5543	4705	4656
80°	4857	4228	4240
85°	4185	3847	4022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7421 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	2.0
10°-20°	364.6	5.8
20°-30°	542.1	8.6
30°-40°	642.0	10.2
40°-50°	663.7	10.5
50°-60°	611.4	9.7
60°-70°	494.3	7.8
70°-80°	330.7	5.2
80°-90°	172.1	2.7
90°-100°	307.9	4.9
100°-110°	510.6	8.1
110°-120°	458.1	7.2
120°-130°	359.1	5.7
130°-140°	278.7	4.4
140°-150°	203.8	3.2
150°-160°	141.9	2.2
160°-170°	83.6	1.3
170°-180°	27.2	0.4
0°-30°	1035.1	16.4
0°-40°	1677.1	26.5
0°-60°	2952.3	46.7
0°-90°	3949.3	62.5
90°-120°	1276.6	20.2
90°-150°	2118.3	33.5
90°-180°	2371.0	37.5
0°-180°	6320.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1357	1354	1345	1356	1354	129
15°	1296	1297	1288	1296	1291	365
25°	1178	1182	1174	1179	1172	542
35°	1019	1028	1024	1028	1028	638
45°	840	854	861	870	872	648
55°	645	667	688	702	708	577
65°	444	475	507	527	532	441
75°	245	279	322	349	355	259
85°	73	117	164	193	204	76
90°	22	69	118	152	162	16
95°	36	107	599	354	269	33
105°	76	123	484	909	860	80
115°	122	155	382	787	920	121
125°	164	190	347	617	718	145
135°	188	225	324	502	582	146
145°	218	248	315	399	444	136
155°	247	266	307	347	362	114
165°	270	277	295	312	317	76
175°	280	280	283	286	285	27
180°	281	281	281	281	281	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.1	1357.1	1357.1	1357.1	1357.1
2.5°	1361.1	1358.4	1349.1	1358.4	1357.1
5°	1357.1	1354.4	1345.1	1355.8	1354.4
7.5°	1347.8	1346.4	1337.1	1346.4	1345.1
10°	1334.5	1334.5	1323.8	1333.1	1331.8
12.5°	1315.8	1317.2	1309.2	1315.8	1311.8
15°	1295.9	1297.2	1287.9	1295.9	1290.6
17.5°	1270.6	1273.3	1263.9	1270.6	1266.6
20°	1242.7	1245.3	1236.0	1240.0	1240.0
22.5°	1210.7	1216.1	1205.4	1210.7	1206.7
25°	1177.5	1181.5	1173.5	1178.8	1172.1
27.5°	1141.5	1146.9	1137.6	1141.5	1138.9
30°	1100.3	1108.3	1100.3	1103.0	1101.6
32.5°	1063.0	1069.7	1064.4	1067.0	1065.7
35°	1019.1	1028.5	1024.5	1028.5	1028.5
37.5°	976.6	984.5	983.2	988.5	987.2
40°	932.7	943.3	942.0	947.3	950.0
42.5°	884.8	899.4	903.4	910.0	910.0
45°	839.5	854.2	860.8	870.1	871.5
47.5°	793.0	806.3	816.9	830.2	832.9
50°	745.1	759.7	774.3	789.0	793.0
52.5°	694.5	713.1	731.8	747.7	750.4
55°	645.3	666.6	687.9	702.5	707.8
57.5°	594.7	620.0	643.9	659.9	663.9
60°	544.2	570.8	597.4	617.3	621.3
62.5°	494.9	521.5	550.8	573.4	578.8
65°	444.4	475.0	506.9	526.9	532.2
67.5°	397.8	427.1	459.0	483.0	489.6
70°	345.9	376.5	411.1	436.4	444.4
72.5°	295.4	327.3	365.9	393.8	399.1
75°	244.8	279.4	322.0	348.6	355.2
77.5°	195.6	235.5	275.4	304.7	310.0
80°	150.3	190.3	235.5	264.8	270.1
82.5°	109.1	151.7	198.2	226.2	236.8
85°	73.2	117.1	163.6	192.9	203.6
87.5°	46.6	89.1	134.4	165.0	174.3
90°	21.9	69.0	118.2	151.6	162.0
92.5°	27.1	103.7	329.9	193.4	184.3
95°	36.0	107.2	599.1	354.2	268.9
97.5°	44.9	107.6	634.0	531.1	420.9
100°	54.3	111.2	596.9	694.4	563.1
102.5°	64.9	117.1	537.6	831.6	724.1
105°	76.0	122.8	484.0	908.6	859.9
107.5°	86.5	130.5	443.6	926.8	938.2
110°	98.3	138.6	414.9	897.8	971.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	111.3	146.8	396.0	844.4	960.2
115°	122.5	155.3	381.7	786.6	920.1
117.5°	132.5	164.0	371.3	732.4	864.4
120°	143.8	173.5	362.5	687.2	809.0
122.5°	154.3	181.5	354.3	648.4	759.3
125°	164.0	189.8	346.8	617.4	717.5
127.5°	170.6	199.3	340.3	588.6	679.9
130°	177.9	209.5	335.2	560.9	647.8
132.5°	182.3	218.6	329.9	531.6	615.6
135°	188.5	224.8	324.5	501.8	581.9
137.5°	196.5	231.9	321.2	472.5	545.8
140°	201.9	237.8	317.7	445.1	509.3
142.5°	209.8	242.2	315.6	420.8	475.1
145°	217.7	247.9	315.0	399.0	443.8
147.5°	224.9	253.0	313.9	381.0	413.8
150°	232.3	257.5	312.2	366.6	391.1
152.5°	240.2	262.0	309.9	356.7	375.1
155°	247.0	265.8	307.1	347.0	362.1
157.5°	253.3	269.4	304.3	338.0	350.2
160°	259.5	272.2	301.4	328.9	338.3
162.5°	264.6	275.1	298.0	320.7	327.5
165°	269.7	277.1	294.6	312.5	317.3
167.5°	273.1	278.2	291.2	304.8	307.7
170°	276.5	279.6	288.4	297.4	299.2
172.5°	278.8	280.2	285.0	291.5	291.2
175°	280.5	280.5	282.7	286.1	285.0
177.5°	281.6	280.5	281.0	282.7	281.0
180°	281.0	281.0	281.0	281.0	281.0

(END OF REPORT)