

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: P1027447

Luminaire Tested: S125DIP-B1090D610UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027447
REPORT IS A COMBINATION OF REPORTS P1001407 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-F4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

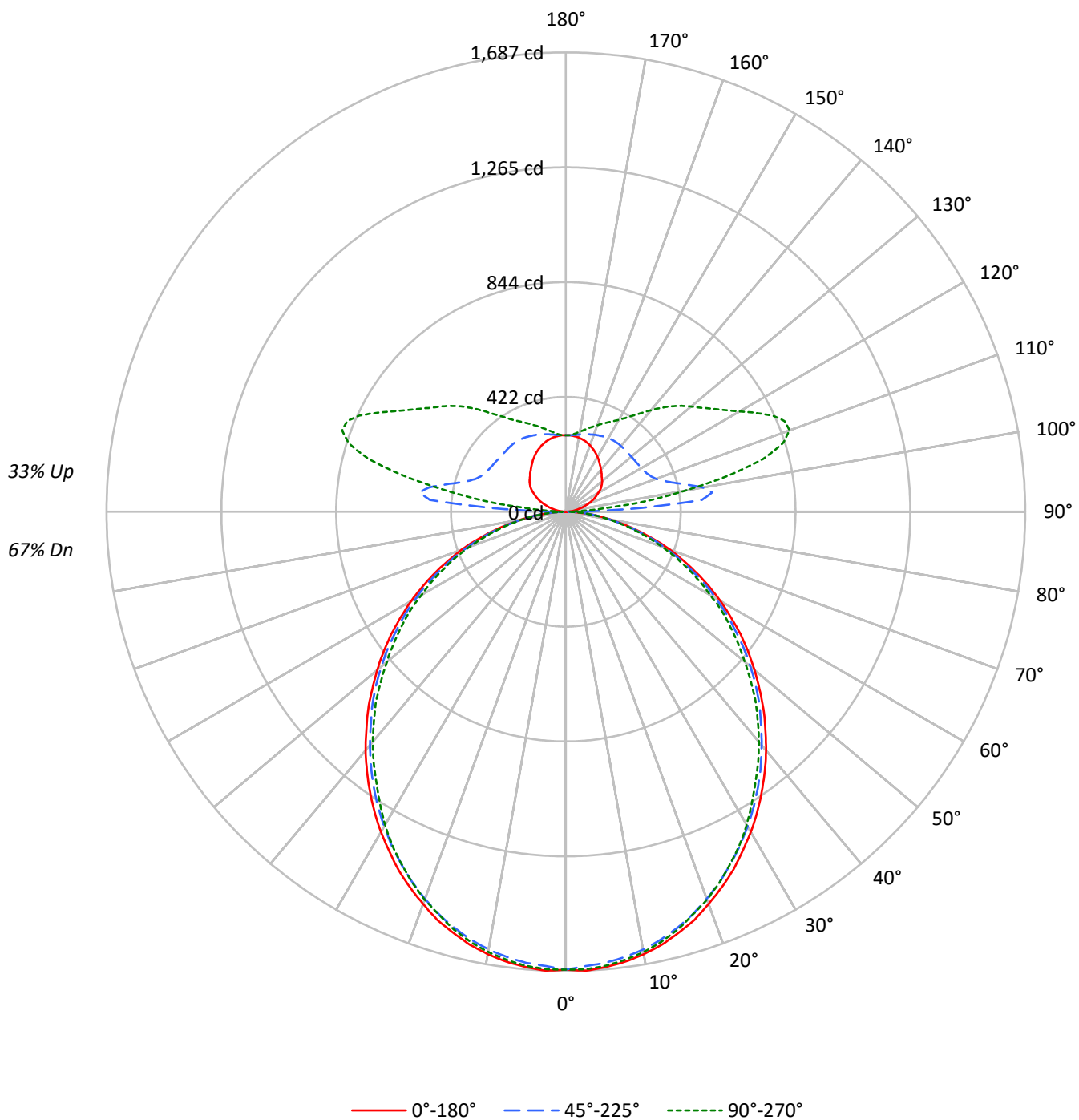
Lumens per Lamp: N/A
Luminaire Lumens: 6493.3 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
Input Voltage (V):
Input Current (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	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°	10775	10775	10775
5°	10775	10525	10545
10°	10686	10284	10251
15°	10546	9995	9905
20°	10356	9660	9508
25°	10152	9295	9084
30°	9907	8915	8636
35°	9644	8517	8135
40°	9373	8095	7688
45°	9080	7684	7215
50°	8757	7218	6663
55°	8437	6705	6155
60°	8056	6164	5564
65°	7600	5537	4954
70°	7136	4816	4249
75°	6356	3965	3436
80°	5416	2962	2528
85°	4185	1752	1393

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 9080 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	2.4
10°-20°	448.2	6.9
20°-30°	661.7	10.2
30°-40°	772.1	11.9
40°-50°	775.4	11.9
50°-60°	680.7	10.5
60°-70°	507.0	7.8
70°-80°	289.6	4.5
80°-90°	84.7	1.3
90°-100°	211.6	3.3
100°-110°	439.6	6.8
110°-120°	410.6	6.3
120°-130°	332.2	5.1
130°-140°	267.0	4.1
140°-150°	201.5	3.1
150°-160°	141.9	2.2
160°-170°	83.6	1.3
170°-180°	27.2	0.4
0°-30°	1268.7	19.5
0°-40°	2040.7	31.4
0°-60°	3496.8	53.9
0°-90°	4378.1	67.4
90°-120°	1061.9	16.4
90°-150°	1862.5	28.7
90°-180°	2115.0	32.6
0°-180°	6493.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1679	1676	1663	1675	1674	159
15°	1600	1596	1582	1588	1588	451
25°	1453	1446	1429	1432	1428	668
35°	1255	1249	1231	1224	1213	785
45°	1027	1022	1006	990	986	791
55°	782	778	760	748	738	698
65°	528	526	511	499	494	524
75°	281	278	271	267	262	299
85°	73	74	74	73	70	80
90°	1	5	9	12	13	6
95°	19	55	502	228	133	19
105°	64	90	411	809	751	67
115°	114	138	330	711	836	113
125°	159	186	316	566	659	141
135°	186	224	314	474	547	144
145°	216	248	315	392	432	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°	1681.7	1681.7	1681.7	1681.7	1681.7
2.5°	1687.0	1683.0	1669.7	1683.0	1681.7
5°	1679.0	1676.4	1663.1	1675.0	1673.7
7.5°	1667.0	1664.4	1649.7	1661.7	1660.4
10°	1649.7	1647.1	1632.5	1643.1	1641.8
12.5°	1628.5	1623.1	1609.8	1617.8	1617.8
15°	1600.5	1596.5	1581.9	1588.5	1588.5
17.5°	1571.3	1564.6	1550.0	1557.9	1551.3
20°	1532.7	1530.0	1512.7	1522.0	1515.4
22.5°	1494.1	1488.8	1472.8	1478.1	1474.1
25°	1452.8	1446.2	1428.9	1431.6	1427.6
27.5°	1404.9	1401.0	1383.7	1385.0	1381.0
30°	1358.4	1354.4	1334.4	1331.8	1327.8
32.5°	1307.8	1301.2	1283.9	1278.6	1270.6
35°	1254.6	1249.3	1230.7	1224.0	1213.4
37.5°	1200.1	1193.4	1176.1	1166.8	1160.1
40°	1144.2	1137.5	1118.9	1106.9	1102.9
42.5°	1084.3	1079.0	1060.4	1049.7	1043.1
45°	1027.1	1021.8	1005.8	989.8	985.9
47.5°	964.6	965.9	945.9	930.0	920.7
50°	904.7	900.7	884.7	867.4	858.1
52.5°	843.5	840.8	823.5	808.9	798.3
55°	782.3	778.3	759.7	747.7	738.4
57.5°	717.1	715.8	699.8	683.8	679.9
60°	655.9	650.6	636.0	622.6	613.3
62.5°	592.0	588.1	576.1	561.4	554.8
65°	528.2	525.5	510.9	498.9	493.6
67.5°	465.7	460.3	449.7	439.0	436.4
70°	407.1	400.5	388.5	380.5	375.2
72.5°	343.3	339.3	332.6	323.3	318.0
75°	280.7	278.1	271.4	267.4	262.1
77.5°	222.2	220.9	216.9	214.2	210.2
80°	167.6	167.6	165.0	163.6	161.0
82.5°	119.7	117.1	117.1	114.4	114.4
85°	73.2	74.5	74.5	73.2	70.5
87.5°	35.9	35.9	34.6	34.6	31.9
90°	0.6	5.1	9.1	11.9	13.0
92.5°	8.5	46.5	226.1	60.4	41.9
95°	18.7	55.2	502.0	227.8	133.2
97.5°	28.9	59.8	542.2	411.4	291.8
100°	39.7	68.6	511.7	581.3	442.0
102.5°	51.6	78.5	457.8	725.2	609.7
105°	64.0	89.6	410.8	808.8	750.8
107.5°	75.9	101.2	375.7	832.4	835.8
110°	89.0	113.4	352.4	810.0	874.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	102.0	125.5	338.8	763.2	869.7
115°	114.5	138.0	329.8	710.8	836.3
117.5°	125.8	150.7	324.7	663.2	785.9
120°	137.1	162.9	321.3	623.2	737.2
122.5°	149.0	174.8	318.4	591.2	694.1
125°	158.7	185.8	316.2	565.5	659.0
127.5°	166.6	196.6	315.0	543.4	626.7
130°	173.9	206.8	313.9	521.0	601.2
132.5°	179.6	215.8	313.9	497.0	575.7
135°	185.8	223.6	313.9	474.0	547.3
137.5°	193.8	230.6	314.5	449.9	517.9
140°	200.6	236.6	315.0	427.8	486.7
142.5°	208.5	242.2	315.6	408.8	457.8
145°	216.4	247.9	315.0	392.4	431.8
147.5°	224.9	253.0	313.9	378.2	408.5
150°	232.3	257.5	312.2	366.6	389.8
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)