

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: P1027693

Luminaire Tested: S125DIP-B1270D610UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027693
REPORT IS A COMBINATION OF REPORTS P1001746 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D610UB40-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

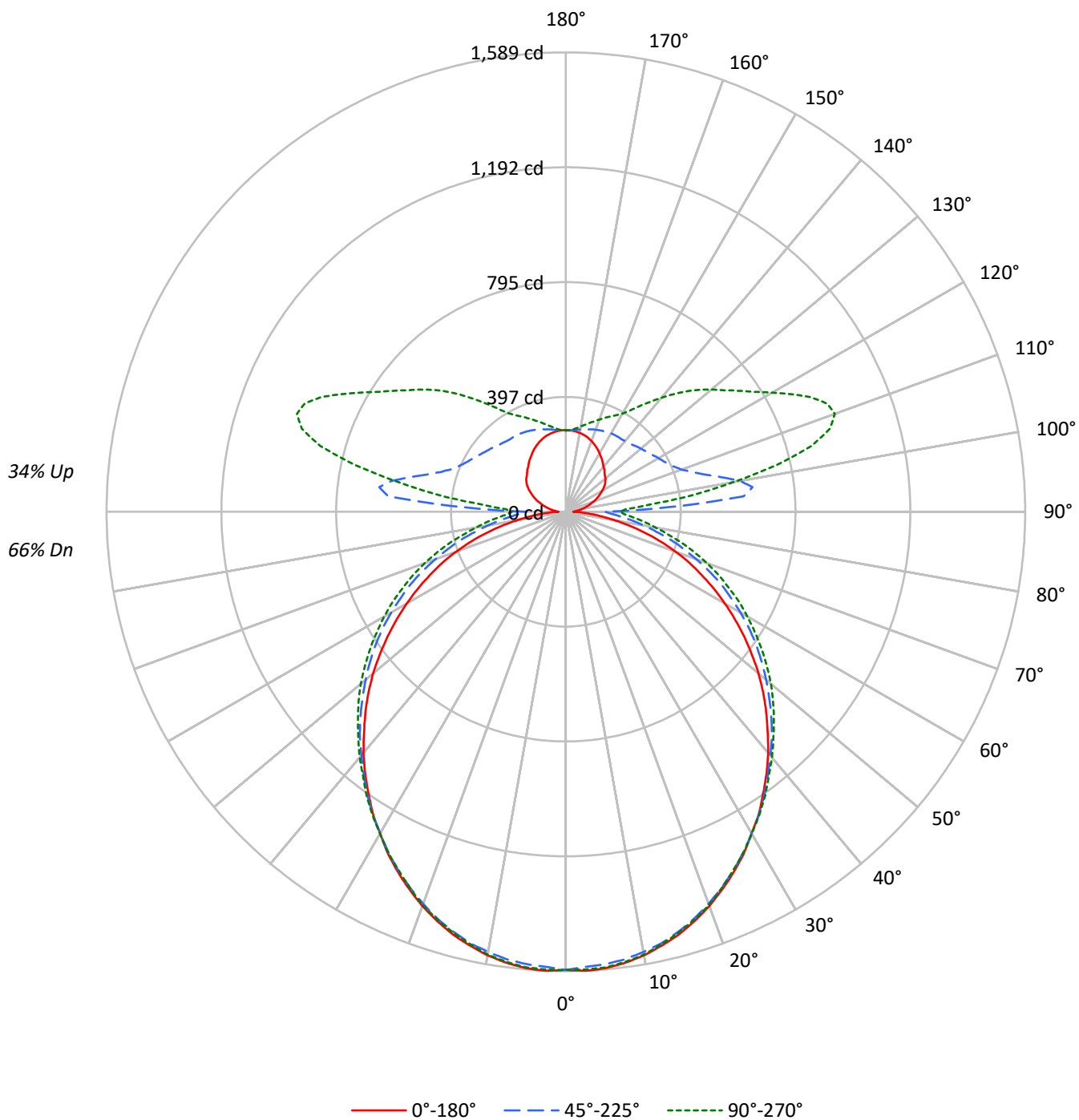
Lumens per Lamp: N/A
Luminaire Lumens: 7031.3 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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		104	104	104	104		92	92	92		81	81	81		70	70	70
1	100	95	91	87		94	90	86	83		79	76	74		70	67	65		61	59	58
2	91	83	76	70		85	78	72	67		69	64	60		61	57	54		53	50	48
3	83	73	65	58		77	68	61	56		61	55	50		53	49	45		47	43	40
4	76	64	56	49		71	60	53	47		54	48	43		47	42	38		41	38	34
5	69	57	48	42		65	54	46	40		48	42	37		42	37	33		37	33	30
6	64	51	43	36		60	48	41	35		43	37	32		38	33	29		34	30	26
7	59	46	38	32		55	44	36	31		39	33	28		35	30	26		31	27	23
8	55	42	34	28		52	40	32	27		36	30	25		32	27	23		28	24	21
9	51	38	31	25		48	36	29	24		33	27	22		29	24	21		26	22	19
10	48	35	28	23		45	34	27	22		30	24	20		27	22	19		24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10153	10153	10153
5°	10170	9940	9965
10°	10093	9737	9710
15°	9970	9502	9397
20°	9805	9217	9085
25°	9608	8914	8709
30°	9370	8583	8367
35°	9148	8279	8051
40°	8922	7957	7733
45°	8666	7679	7447
50°	8421	7377	7189
55°	8127	7089	6890
60°	7804	6761	6582
65°	7466	6414	6236
70°	7080	5952	5876
75°	6473	5494	5437
80°	5675	4937	4951
85°	4883	4493	4696

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8666 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	2.1
10°-20°	425.7	6.1
20°-30°	633.0	9.0
30°-40°	749.7	10.7
40°-50°	775.0	11.0
50°-60°	714.0	10.2
60°-70°	577.2	8.2
70°-80°	386.2	5.5
80°-90°	200.7	2.9
90°-100°	324.7	4.6
100°-110°	523.7	7.4
110°-120°	467.3	6.6
120°-130°	364.6	5.2
130°-140°	281.5	4.0
140°-150°	204.8	2.9
150°-160°	142.3	2.0
160°-170°	83.9	1.2
170°-180°	27.3	0.4
0°-30°	1208.7	17.2
0°-40°	1958.3	27.9
0°-60°	3447.3	49.0
0°-90°	4611.4	65.6
90°-120°	1315.6	18.7
90°-150°	2166.5	30.8
90°-180°	2420.0	34.4
0°-180°	7031.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1585	1582	1571	1583	1582	150
15°	1513	1515	1504	1513	1507	426
25°	1375	1380	1370	1376	1369	633
35°	1190	1201	1196	1201	1201	745
45°	980	997	1005	1016	1018	756
55°	754	778	803	820	826	673
65°	519	555	592	615	621	515
75°	286	326	376	407	415	303
85°	85	137	191	225	238	89
90°	26	80	136	175	187	19
95°	39	116	617	376	292	35
105°	78	129	497	928	880	82
115°	124	159	391	801	937	122
125°	165	191	353	628	729	147
135°	190	226	327	508	589	147
145°	219	249	316	401	447	137
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.7	1584.7	1584.7	1584.7	1584.7
2.5°	1589.3	1586.2	1575.3	1586.2	1584.7
5°	1584.7	1581.6	1570.7	1583.1	1581.6
7.5°	1573.8	1572.2	1561.4	1572.2	1570.7
10°	1558.2	1558.2	1545.8	1556.7	1555.1
12.5°	1536.5	1538.1	1528.7	1536.5	1531.8
15°	1513.2	1514.7	1503.9	1513.2	1507.0
17.5°	1483.7	1486.8	1475.9	1483.7	1479.0
20°	1451.1	1454.2	1443.3	1447.9	1447.9
22.5°	1413.8	1420.0	1407.6	1413.8	1409.1
25°	1374.9	1379.6	1370.3	1376.5	1368.7
27.5°	1333.0	1339.2	1328.3	1333.0	1329.9
30°	1284.8	1294.1	1284.8	1287.9	1286.4
32.5°	1241.3	1249.1	1242.9	1246.0	1244.4
35°	1190.0	1200.9	1196.3	1200.9	1200.9
37.5°	1140.3	1149.7	1148.1	1154.3	1152.8
40°	1089.1	1101.5	1099.9	1106.2	1109.3
42.5°	1033.1	1050.2	1054.9	1062.7	1062.7
45°	980.3	997.4	1005.2	1016.0	1017.6
47.5°	925.9	941.5	953.9	969.4	972.5
50°	870.0	887.1	904.2	921.3	925.9
52.5°	811.0	832.7	854.5	873.1	876.2
55°	753.5	778.3	803.2	820.3	826.5
57.5°	694.5	724.0	751.9	770.6	775.2
60°	635.4	666.5	697.6	720.9	725.5
62.5°	577.9	609.0	643.2	669.6	675.8
65°	518.9	554.6	591.9	615.2	621.4
67.5°	464.5	498.7	536.0	564.0	571.7
70°	403.9	439.7	480.1	509.6	518.9
72.5°	344.9	382.2	427.2	459.9	466.1
75°	285.9	326.3	376.0	407.0	414.8
77.5°	228.4	275.0	321.6	355.8	362.0
80°	175.6	222.2	275.0	309.2	315.4
82.5°	127.4	177.1	231.5	264.1	276.5
85°	85.4	136.7	191.1	225.3	237.7
87.5°	54.4	104.1	156.9	192.6	203.5
90°	25.5	79.7	136.5	175.0	187.1
92.5°	30.3	113.4	347.9	215.9	208.2
95°	39.0	116.0	616.8	376.0	292.0
97.5°	47.6	115.8	651.0	552.3	443.3
100°	56.9	118.4	612.5	715.1	584.6
102.5°	67.2	123.8	552.3	851.6	745.0
105°	78.2	128.6	497.4	927.6	880.3
107.5°	88.5	135.6	455.9	945.0	957.7
110°	100.1	143.2	426.4	914.8	990.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	113.2	150.8	406.6	860.1	977.8
115°	124.1	158.6	391.3	801.4	936.6
117.5°	133.9	166.6	380.0	745.9	879.8
120°	145.3	175.8	370.4	699.6	823.2
122.5°	155.6	183.1	361.2	659.8	772.2
125°	165.3	191.1	352.8	627.6	729.2
127.5°	171.8	200.3	345.4	597.7	690.6
130°	179.1	210.5	339.7	569.1	657.3
132.5°	183.2	219.6	333.4	538.7	623.9
135°	189.5	225.8	327.2	507.9	589.3
137.5°	197.4	232.8	323.2	477.6	552.0
140°	202.8	238.8	319.0	449.2	514.5
142.5°	210.7	242.9	316.5	424.0	479.3
145°	218.7	248.6	315.9	401.3	447.0
147.5°	225.6	253.7	314.8	382.4	415.9
150°	233.0	258.2	313.1	367.6	392.5
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)