

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: P1027666

Luminaire Tested: S125DIP-B1270D610UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027666
REPORT IS A COMBINATION OF REPORTS P1001704 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D610UB27-4F0-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

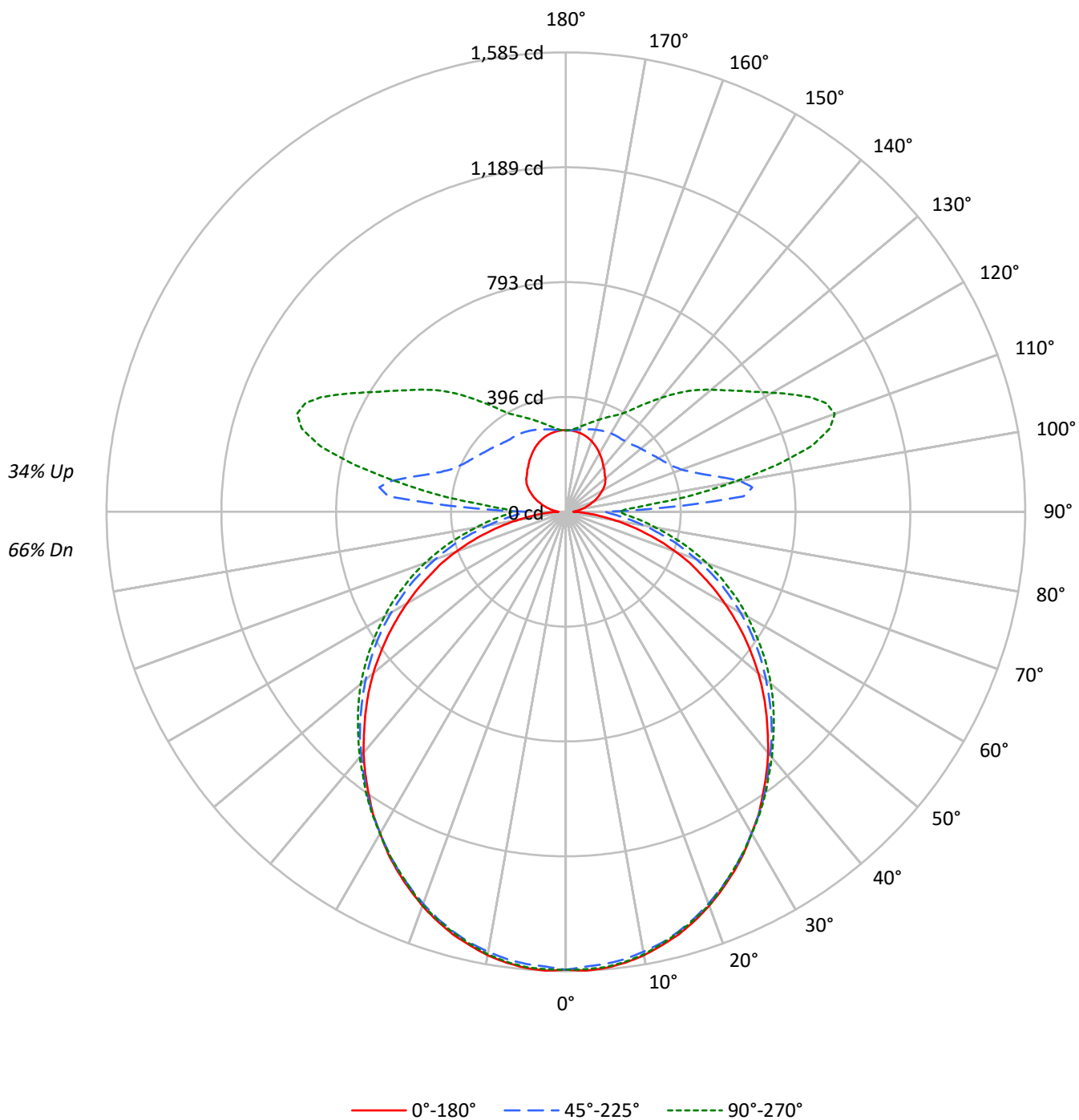
Lumens per Lamp: N/A
Luminaire Lumens: 7011.3 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	10124	10124	10124
5°	10140	9912	9936
10°	10065	9710	9682
15°	9942	9475	9370
20°	9776	9191	9059
25°	9581	8889	8684
30°	9344	8559	8343
35°	9122	8255	8028
40°	8897	7935	7711
45°	8641	7657	7426
50°	8397	7356	7169
55°	8103	7068	6870
60°	7782	6741	6564
65°	7445	6396	6219
70°	7061	5934	5859
75°	6453	5478	5421
80°	5658	4923	4937
85°	4871	4479	4682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8641 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	2.1
10°-20°	424.5	6.1
20°-30°	631.2	9.0
30°-40°	747.5	10.7
40°-50°	772.8	11.0
50°-60°	711.9	10.2
60°-70°	575.5	8.2
70°-80°	385.1	5.5
80°-90°	200.2	2.9
90°-100°	323.8	4.6
100°-110°	522.2	7.4
110°-120°	465.9	6.6
120°-130°	363.6	5.2
130°-140°	280.6	4.0
140°-150°	204.2	2.9
150°-160°	141.9	2.0
160°-170°	83.6	1.2
170°-180°	27.2	0.4
0°-30°	1205.2	17.2
0°-40°	1952.7	27.9
0°-60°	3437.5	49.0
0°-90°	4598.3	65.6
90°-120°	1311.9	18.7
90°-150°	2160.3	30.8
90°-180°	2413.0	34.4
0°-180°	7011.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1580	1577	1566	1579	1577	150
15°	1509	1510	1500	1509	1503	425
25°	1371	1376	1366	1373	1365	631
35°	1187	1198	1193	1198	1198	743
45°	978	995	1002	1013	1015	754
55°	751	776	801	818	824	672
65°	517	553	590	614	620	513
75°	285	325	375	406	414	302
85°	85	136	190	225	237	89
90°	25	80	136	175	186	19
95°	39	116	615	375	291	35
105°	78	128	496	925	878	82
115°	124	158	390	799	934	122
125°	165	190	352	626	727	146
135°	189	225	326	506	588	147
145°	218	248	315	400	446	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°	1580.1	1580.1	1580.1	1580.1	1580.1
2.5°	1584.8	1581.7	1570.8	1581.7	1580.1
5°	1580.1	1577.0	1566.2	1578.6	1577.0
7.5°	1569.3	1567.7	1556.9	1567.7	1566.2
10°	1553.8	1553.8	1541.4	1552.3	1550.7
12.5°	1532.1	1533.7	1524.4	1532.1	1527.5
15°	1508.9	1510.4	1499.6	1508.9	1502.7
17.5°	1479.4	1482.5	1471.7	1479.4	1474.8
20°	1446.9	1450.0	1439.2	1443.8	1443.8
22.5°	1409.7	1415.9	1403.5	1409.7	1405.1
25°	1371.0	1375.7	1366.4	1372.6	1364.8
27.5°	1329.2	1335.4	1324.5	1329.2	1326.1
30°	1281.2	1290.4	1281.2	1284.3	1282.7
32.5°	1237.8	1245.5	1239.3	1242.4	1240.9
35°	1186.7	1197.5	1192.9	1197.5	1197.5
37.5°	1137.1	1146.4	1144.8	1151.0	1149.5
40°	1086.0	1098.4	1096.8	1103.0	1106.1
42.5°	1030.2	1047.2	1051.9	1059.6	1059.6
45°	977.5	994.6	1002.3	1013.1	1014.7
47.5°	923.3	938.8	951.2	966.7	969.8
50°	867.5	884.6	901.6	918.7	923.3
52.5°	808.7	830.3	852.0	870.6	873.7
55°	751.3	776.1	800.9	818.0	824.2
57.5°	692.5	721.9	749.8	768.4	773.0
60°	633.6	664.6	695.6	718.8	723.5
62.5°	576.3	607.3	641.4	667.7	673.9
65°	517.4	553.0	590.2	613.5	619.7
67.5°	463.2	497.3	534.5	562.3	570.1
70°	402.8	438.4	478.7	508.1	517.4
72.5°	343.9	381.1	426.0	458.6	464.7
75°	285.0	325.3	374.9	405.9	413.6
77.5°	227.7	274.2	320.7	354.8	361.0
80°	175.1	221.5	274.2	308.3	314.5
82.5°	127.0	176.6	230.8	263.4	275.8
85°	85.2	136.3	190.5	224.6	237.0
87.5°	54.2	103.8	156.5	192.1	202.9
90°	25.4	79.5	136.1	174.6	186.5
92.5°	30.2	113.1	346.9	215.2	207.7
95°	38.8	115.6	615.1	375.0	291.2
97.5°	47.5	115.6	649.1	550.8	442.1
100°	56.7	118.2	610.8	713.0	583.0
102.5°	67.1	123.4	550.7	849.2	742.9
105°	77.9	128.2	496.0	925.0	877.8
107.5°	88.3	135.2	454.7	942.4	955.1
110°	99.8	142.8	425.2	912.2	987.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	112.8	150.3	405.4	857.8	975.0
115°	123.8	158.1	390.2	799.1	933.9
117.5°	133.5	166.2	378.9	743.8	877.3
120°	144.8	175.3	369.3	697.6	820.9
122.5°	155.2	182.5	360.2	657.8	770.0
125°	164.9	190.4	351.8	625.9	727.2
127.5°	171.2	199.7	344.4	596.1	688.7
130°	178.5	209.9	338.7	567.5	655.4
132.5°	182.7	219.0	332.5	537.2	622.2
135°	188.9	225.0	326.3	506.4	587.6
137.5°	196.9	232.1	322.2	476.2	550.4
140°	202.1	238.0	318.1	447.9	513.0
142.5°	210.0	242.2	315.6	422.7	477.9
145°	217.9	247.9	315.0	400.0	445.7
147.5°	224.9	253.0	313.9	381.4	414.7
150°	232.3	257.5	312.2	366.6	391.3
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)