

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: P1027673

Luminaire Tested: S125DIP-B1270D610UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027673
REPORT IS A COMBINATION OF REPORTS P1001726 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D610UB30-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

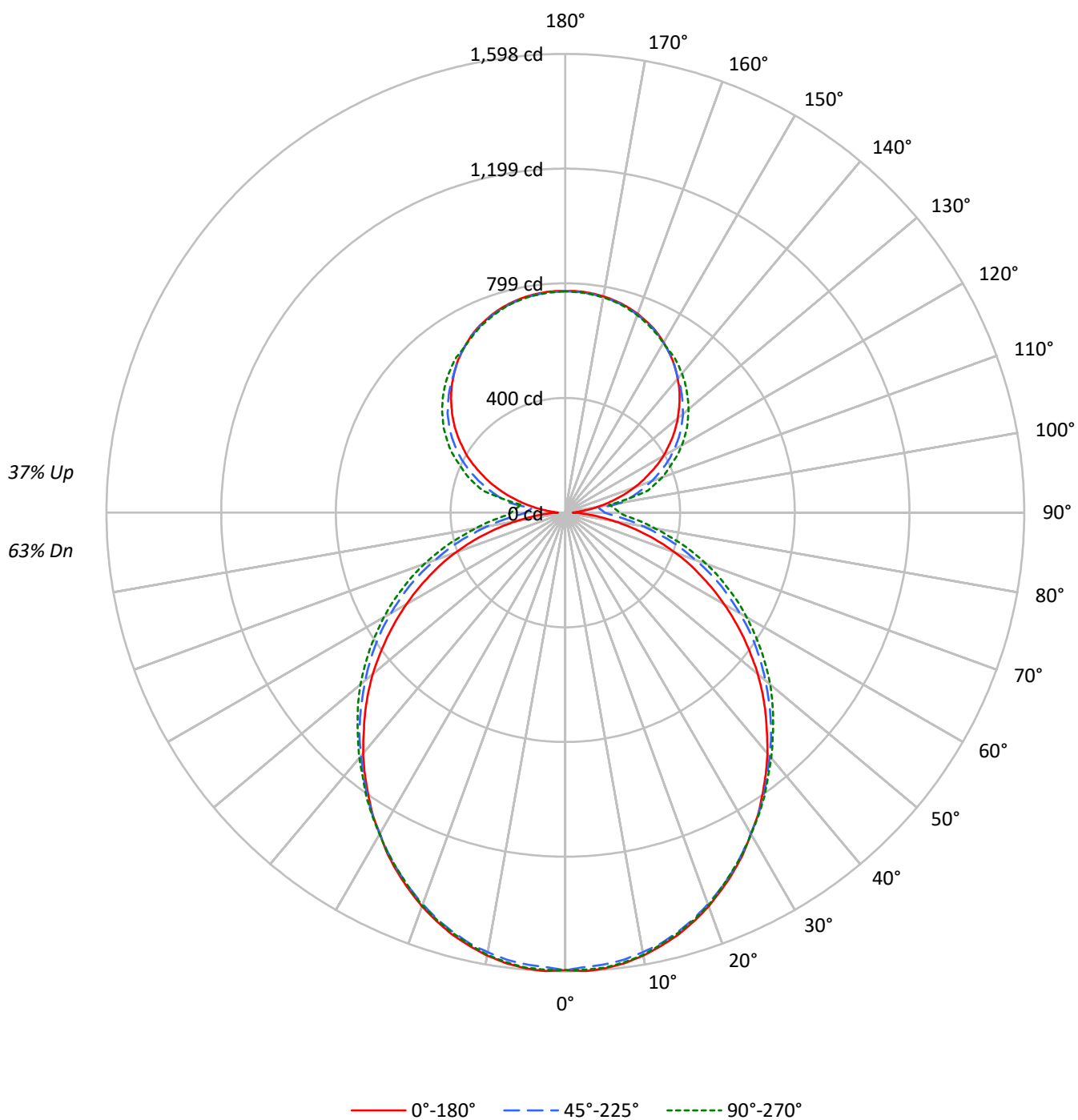
Lumens per Lamp: N/A
Luminaire Lumens: 7307.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	110	110	110	110	104	104	104	104	91	91	91	79	79	79	68	68	68
1	100	95	91	87	93	89	85	82	78	75	73	68	66	64	59	57	56
2	91	82	76	70	85	77	72	67	68	64	60	59	56	53	51	49	46
3	82	72	64	58	77	68	61	55	60	54	50	52	48	44	45	42	39
4	75	64	55	49	70	60	52	47	53	47	42	46	42	38	40	37	33
5	69	57	48	42	64	54	46	40	47	41	36	42	37	33	36	32	29
6	64	51	42	36	59	48	40	35	43	36	32	38	32	28	33	29	25
7	59	46	38	32	55	43	36	30	39	32	28	34	29	25	30	26	23
8	55	42	34	28	51	40	32	27	35	29	25	31	26	22	28	23	20
9	51	38	30	25	48	36	29	24	32	26	22	29	24	20	25	21	18
10	48	35	28	23	45	33	26	22	30	24	20	27	22	18	24	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10211	10211	10211
5°	10228	9997	10021
10°	10151	9793	9765
15°	10027	9556	9450
20°	9860	9269	9137
25°	9663	8965	8759
30°	9423	8632	8414
35°	9200	8326	8097
40°	8973	8003	7777
45°	8715	7723	7490
50°	8469	7419	7230
55°	8173	7129	6929
60°	7848	6799	6620
65°	7510	6451	6273
70°	7120	5985	5910
75°	6510	5524	5469
80°	5707	4966	4980
85°	4911	4519	4723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8715 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	2.1
10°-20°	428.1	5.9
20°-30°	636.6	8.7
30°-40°	754.0	10.3
40°-50°	779.5	10.7
50°-60°	718.0	9.8
60°-70°	580.5	7.9
70°-80°	388.4	5.3
80°-90°	201.9	2.8
90°-100°	139.2	1.9
100°-110°	257.4	3.5
110°-120°	369.2	5.1
120°-130°	433.9	5.9
130°-140°	446.5	6.1
140°-150°	408.8	5.6
150°-160°	328.5	4.5
160°-170°	212.4	2.9
170°-180°	73.3	1.0
0°-30°	1215.5	16.6
0°-40°	1969.5	27.0
0°-60°	3467.0	47.4
0°-90°	4637.7	63.5
90°-120°	765.9	10.5
90°-150°	2055.1	28.1
90°-180°	2669.0	36.5
0°-180°	7307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1594	1591	1580	1592	1591	151
15°	1522	1523	1512	1522	1516	429
25°	1383	1388	1378	1384	1376	637
35°	1197	1208	1203	1208	1208	749
45°	986	1003	1011	1022	1023	761
55°	758	783	808	825	831	677
65°	522	558	595	619	625	518
75°	288	328	378	409	417	305
85°	86	138	192	227	239	90
90°	26	80	137	176	189	19
95°	53	92	123	160	171	56
105°	182	210	256	288	298	193
115°	325	339	380	406	412	322
125°	455	458	489	511	518	406
135°	563	565	574	594	598	434
145°	650	650	650	658	661	406
155°	715	711	712	714	709	329
165°	754	751	751	755	750	213
175°	771	768	768	773	768	73
180°	771	771	771	771	771	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.7	1593.7	1593.7	1593.7	1593.7
2.5°	1598.4	1595.3	1584.3	1595.3	1593.7
5°	1593.7	1590.6	1579.6	1592.1	1590.6
7.5°	1582.8	1581.2	1570.3	1581.2	1579.6
10°	1567.1	1567.1	1554.6	1565.6	1564.0
12.5°	1545.3	1546.8	1537.5	1545.3	1540.6
15°	1521.8	1523.4	1512.5	1521.8	1515.6
17.5°	1492.1	1495.3	1484.3	1492.1	1487.5
20°	1459.3	1462.5	1451.5	1456.2	1456.2
22.5°	1421.8	1428.1	1415.6	1421.8	1417.1
25°	1382.8	1387.5	1378.1	1384.3	1376.5
27.5°	1340.6	1346.8	1335.9	1340.6	1337.5
30°	1292.1	1301.5	1292.1	1295.3	1293.7
32.5°	1248.4	1256.2	1250.0	1253.1	1251.5
35°	1196.8	1207.8	1203.1	1207.8	1207.8
37.5°	1146.8	1156.2	1154.7	1160.9	1159.3
40°	1095.3	1107.8	1106.2	1112.5	1115.6
42.5°	1039.0	1056.2	1060.9	1068.7	1068.7
45°	985.9	1003.1	1010.9	1021.8	1023.4
47.5°	931.2	946.8	959.3	975.0	978.1
50°	875.0	892.2	909.3	926.5	931.2
52.5°	815.6	837.5	859.3	878.1	881.2
55°	757.8	782.8	807.8	825.0	831.2
57.5°	698.4	728.1	756.2	775.0	779.7
60°	639.0	670.3	701.5	725.0	729.7
62.5°	581.2	612.5	646.9	673.4	679.7
65°	521.9	557.8	595.3	618.7	625.0
67.5°	467.2	501.5	539.0	567.2	575.0
70°	406.2	442.2	482.8	512.5	521.9
72.5°	346.9	384.4	429.7	462.5	468.7
75°	287.5	328.1	378.1	409.4	417.2
77.5°	229.7	276.6	323.4	357.8	364.1
80°	176.6	223.4	276.6	310.9	317.2
82.5°	128.1	178.1	232.8	265.6	278.1
85°	85.9	137.5	192.2	226.6	239.1
87.5°	54.7	104.7	157.8	193.7	204.7
90°	25.6	80.1	137.2	176.1	188.7
92.5°	32.8	72.9	131.0	168.2	179.8
95°	52.9	91.8	123.2	160.4	171.4
97.5°	79.9	120.8	118.1	152.0	163.6
100°	112.7	147.2	199.5	147.1	154.2
102.5°	145.9	177.9	227.5	259.9	221.3
105°	182.2	209.5	256.3	287.6	297.9
107.5°	219.4	241.3	287.8	319.6	326.7
110°	255.6	274.4	319.2	347.2	358.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	291.0	306.8	349.6	375.4	385.2
115°	325.0	338.7	379.9	405.8	411.7
117.5°	360.5	368.3	409.7	432.8	442.6
120°	394.8	398.9	436.6	462.0	468.6
122.5°	423.5	428.0	462.9	486.8	492.8
125°	455.0	457.5	488.7	511.4	517.5
127.5°	483.7	485.0	511.0	533.3	538.1
130°	511.2	512.4	534.9	555.1	560.0
132.5°	537.0	540.5	554.3	576.2	579.7
135°	562.8	564.7	574.4	593.6	598.0
137.5°	586.8	588.7	593.7	612.5	615.9
140°	608.7	609.8	610.8	629.1	632.0
142.5°	629.9	628.8	630.0	644.1	646.8
145°	650.4	650.0	650.0	658.3	661.2
147.5°	667.1	667.1	667.7	671.4	670.5
150°	684.3	683.1	684.3	685.4	682.4
152.5°	700.9	698.0	699.1	700.3	696.3
155°	714.6	711.1	712.3	714.0	709.4
157.5°	725.4	723.7	723.7	725.4	720.9
160°	736.9	733.4	734.0	736.3	731.7
162.5°	746.0	742.6	743.2	746.6	741.4
165°	754.0	750.6	751.2	754.6	750.0
167.5°	760.3	756.9	757.4	761.4	756.3
170°	765.4	761.4	762.0	766.6	761.4
172.5°	768.9	764.9	766.0	770.0	764.9
175°	771.2	767.7	768.3	772.9	767.7
177.5°	772.9	769.5	770.0	774.0	769.5
180°	771.2	771.2	771.2	771.2	771.2

(END OF REPORT)