

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: P1027684

Luminaire Tested: S125DIP-B1270D610UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027684
REPORT IS A COMBINATION OF REPORTS P1001737 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D610UB35-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

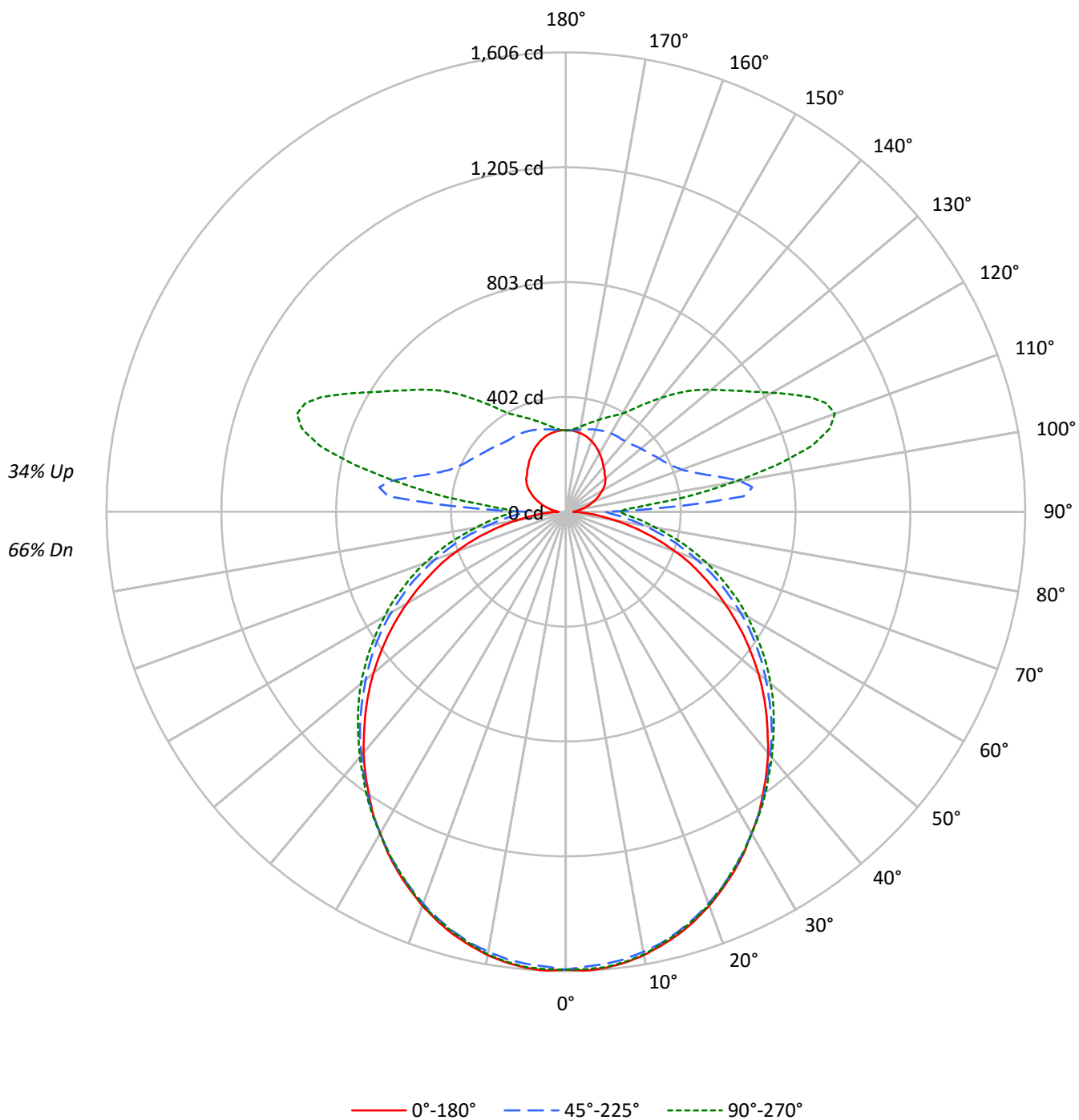
Lumens per Lamp: N/A
Luminaire Lumens: 7103.3 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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°	10256	10256	10256
5°	10273	10042	10066
10°	10196	9837	9809
15°	10072	9599	9492
20°	9904	9311	9178
25°	9706	9004	8798
30°	9466	8671	8452
35°	9241	8362	8133
40°	9013	8038	7812
45°	8754	7757	7523
50°	8507	7452	7263
55°	8210	7161	6960
60°	7884	6830	6649
65°	7543	6479	6301
70°	7152	6011	5936
75°	6539	5549	5492
80°	5729	4988	5002
85°	4934	4538	4743

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8754 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	2.1
10°-20°	430.0	6.1
20°-30°	639.5	9.0
30°-40°	757.3	10.7
40°-50°	782.9	11.0
50°-60°	721.2	10.2
60°-70°	583.0	8.2
70°-80°	390.1	5.5
80°-90°	202.8	2.9
90°-100°	328.0	4.6
100°-110°	529.1	7.4
110°-120°	472.1	6.6
120°-130°	368.4	5.2
130°-140°	284.4	4.0
140°-150°	206.9	2.9
150°-160°	143.8	2.0
160°-170°	84.7	1.2
170°-180°	27.5	0.4
0°-30°	1221.0	17.2
0°-40°	1978.3	27.9
0°-60°	3482.4	49.0
0°-90°	4658.4	65.6
90°-120°	1329.2	18.7
90°-150°	2188.9	30.8
90°-180°	2445.0	34.4
0°-180°	7103.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1601	1601	1601	1601	1601	
5°	1601	1598	1587	1599	1598	152
15°	1529	1530	1519	1529	1522	431
25°	1389	1394	1384	1390	1383	639
35°	1202	1213	1208	1213	1213	753
45°	990	1008	1015	1026	1028	764
55°	761	786	811	829	835	680
65°	524	560	598	622	628	520
75°	289	330	380	411	419	306
85°	86	138	193	228	240	90
90°	26	80	138	177	189	19
95°	39	117	623	380	295	36
105°	79	130	502	937	889	83
115°	125	160	395	810	946	124
125°	167	193	356	634	737	148
135°	191	228	331	513	595	149
145°	221	251	319	405	452	138
155°	250	269	311	352	367	115
165°	273	281	298	317	322	77
175°	284	284	286	290	289	27
180°	285	285	285	285	285	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1600.8	1600.8	1600.8	1600.8	1600.8
2.5°	1605.5	1602.4	1591.4	1602.4	1600.8
5°	1600.8	1597.7	1586.7	1599.2	1597.7
7.5°	1589.8	1588.2	1577.3	1588.2	1586.7
10°	1574.1	1574.1	1561.6	1572.6	1571.0
12.5°	1552.1	1553.7	1544.3	1552.1	1547.4
15°	1528.6	1530.2	1519.2	1528.6	1522.3
17.5°	1498.8	1501.9	1490.9	1498.8	1494.1
20°	1465.8	1469.0	1458.0	1462.7	1462.7
22.5°	1428.2	1434.4	1421.9	1428.2	1423.5
25°	1388.9	1393.6	1384.2	1390.5	1382.7
27.5°	1346.6	1352.8	1341.8	1346.6	1343.4
30°	1297.9	1307.3	1297.9	1301.0	1299.5
32.5°	1254.0	1261.8	1255.5	1258.7	1257.1
35°	1202.2	1213.2	1208.4	1213.2	1213.2
37.5°	1151.9	1161.4	1159.8	1166.1	1164.5
40°	1100.2	1112.7	1111.1	1117.4	1120.6
42.5°	1043.7	1060.9	1065.6	1073.5	1073.5
45°	990.3	1007.6	1015.4	1026.4	1028.0
47.5°	935.4	951.1	963.6	979.3	982.5
50°	878.9	896.1	913.4	930.7	935.4
52.5°	819.2	841.2	863.2	882.0	885.1
55°	761.2	786.3	811.4	828.6	834.9
57.5°	701.5	731.3	759.6	778.4	783.1
60°	641.9	673.3	704.7	728.2	732.9
62.5°	583.8	615.2	649.7	676.4	682.7
65°	524.2	560.3	597.9	621.5	627.8
67.5°	469.3	503.8	541.4	569.7	577.5
70°	408.0	444.1	484.9	514.8	524.2
72.5°	348.4	386.1	431.6	464.5	470.8
75°	288.8	329.6	379.8	411.2	419.0
77.5°	230.7	277.8	324.9	359.4	365.7
80°	177.3	224.4	277.8	312.3	318.6
82.5°	128.7	178.9	233.8	266.8	279.4
85°	86.3	138.1	193.0	227.6	240.1
87.5°	54.9	105.2	158.5	194.6	205.6
90°	25.7	80.4	137.9	176.9	189.0
92.5°	30.6	114.6	351.5	218.0	210.4
95°	39.3	117.2	623.3	379.9	295.0
97.5°	48.1	117.0	657.7	558.0	447.9
100°	57.5	119.7	618.8	722.4	590.6
102.5°	67.9	125.0	558.1	860.5	752.8
105°	79.0	129.9	502.5	937.2	889.4
107.5°	89.5	137.0	460.6	954.8	967.6
110°	101.1	144.6	430.9	924.3	1000.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	114.3	152.2	410.8	869.0	988.0
115°	125.4	160.2	395.3	809.7	946.3
117.5°	135.3	168.4	383.9	753.6	888.9
120°	146.7	177.6	374.2	706.8	831.6
122.5°	157.3	184.9	365.1	666.6	780.2
125°	167.1	193.0	356.5	634.2	736.8
127.5°	173.5	202.4	349.0	604.0	697.8
130°	181.0	212.6	343.2	575.0	664.0
132.5°	185.1	221.8	336.9	544.3	630.4
135°	191.4	228.0	330.7	513.2	595.4
137.5°	199.5	235.2	326.4	482.6	557.7
140°	204.8	241.2	322.3	453.8	519.9
142.5°	212.9	245.4	319.8	428.4	484.3
145°	220.9	251.2	319.2	405.4	451.6
147.5°	227.9	256.4	318.1	386.4	420.2
150°	235.4	261.0	316.3	371.5	396.6
152.5°	243.4	265.5	314.0	361.4	380.1
155°	250.3	269.2	311.2	351.6	366.9
157.5°	256.6	273.0	308.3	342.4	354.8
160°	262.9	275.9	305.4	333.3	342.8
162.5°	268.1	278.7	302.0	325.0	331.8
165°	273.3	280.8	298.5	316.6	321.5
167.5°	276.7	281.8	295.1	308.8	311.7
170°	280.2	283.4	292.2	301.4	303.1
172.5°	282.5	283.9	288.8	295.4	295.1
175°	284.2	284.2	286.5	289.9	288.8
177.5°	285.3	284.2	284.8	286.5	284.8
180°	284.8	284.8	284.8	284.8	284.8

(END OF REPORT)