

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: P1028131

Luminaire Tested: S125DIP-B610D610UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028131
REPORT IS A COMBINATION OF REPORTS P1002340 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D610UB35-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

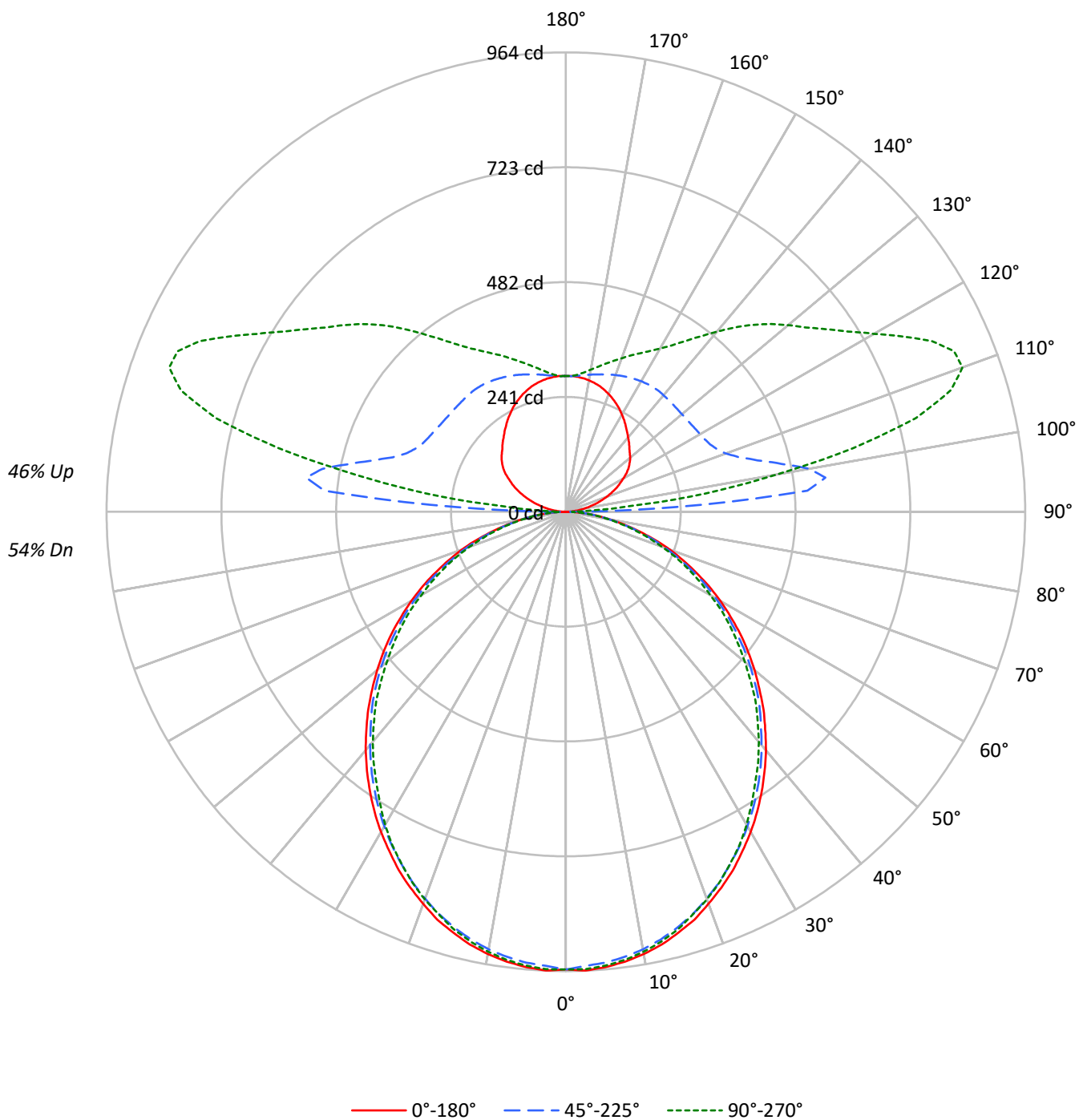
Lumens per Lamp: N/A
Luminaire Lumens: 4644.4 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60
1	99	94	90	87	91	87	84	81	75	72	70	63	62	60	53	51	50
2	90	82	76	71	83	76	71	66	66	62	58	56	53	50	46	44	42
3	82	72	65	59	76	67	61	55	58	53	49	49	45	42	41	38	36
4	75	64	56	50	69	60	53	47	51	46	42	44	40	36	37	34	31
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	30	27
6	63	51	43	37	59	48	40	35	41	36	31	35	31	27	30	26	24
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21
8	54	42	34	29	50	39	32	27	34	29	24	30	25	22	25	22	19
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6154	6154	6154
5°	6154	6012	6023
10°	6104	5873	5855
15°	6024	5708	5657
20°	5915	5517	5431
25°	5799	5309	5188
30°	5659	5092	4933
35°	5509	4864	4646
40°	5353	4624	4392
45°	5186	4389	4121
50°	5001	4123	3805
55°	4819	3829	3515
60°	4601	3520	3178
65°	4341	3162	2829
70°	4076	2751	2427
75°	3630	2265	1962
80°	3093	1691	1443
85°	2390	1002	796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5186 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	2.0
10°-20°	256.0	5.5
20°-30°	378.0	8.1
30°-40°	441.0	9.5
40°-50°	442.9	9.5
50°-60°	388.8	8.4
60°-70°	289.6	6.2
70°-80°	165.4	3.6
80°-90°	48.9	1.1
90°-100°	214.4	4.6
100°-110°	445.4	9.6
110°-120°	416.0	9.0
120°-130°	336.7	7.2
130°-140°	270.5	5.8
140°-150°	204.2	4.4
150°-160°	143.7	3.1
160°-170°	84.7	1.8
170°-180°	27.5	0.6
0°-30°	724.6	15.6
0°-40°	1165.6	25.1
0°-60°	1997.3	43.0
0°-90°	2501.1	53.9
90°-120°	1075.9	23.2
90°-150°	1887.2	40.6
90°-180°	2143.0	46.1
0°-180°	4644.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	959	958	950	957	956	91
15°	914	912	904	907	907	258
25°	830	826	816	818	815	382
35°	717	714	703	699	693	448
45°	587	584	574	565	563	452
55°	447	444	434	427	422	399
65°	302	300	292	285	282	299
75°	160	159	155	153	150	171
85°	42	43	43	42	40	46
90°	1	5	9	12	13	4
95°	19	56	509	231	135	20
105°	65	91	416	820	761	68
115°	116	140	334	720	847	114
125°	161	188	320	573	668	143
135°	188	226	318	480	555	146
145°	219	251	319	398	438	137
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°	960.5	960.5	960.5	960.5	960.5
2.5°	963.6	961.3	953.7	961.3	960.5
5°	959.0	957.5	949.9	956.7	956.0
7.5°	952.2	950.6	942.3	949.1	948.4
10°	942.3	940.8	932.4	938.5	937.7
12.5°	930.1	927.1	919.5	924.0	924.0
15°	914.2	911.9	903.5	907.3	907.3
17.5°	897.4	893.6	885.3	889.8	886.1
20°	875.4	873.9	864.0	869.3	865.5
22.5°	853.4	850.3	841.2	844.3	842.0
25°	829.8	826.0	816.1	817.7	815.4
27.5°	802.5	800.2	790.3	791.1	788.8
30°	775.9	773.6	762.2	760.7	758.4
32.5°	747.0	743.2	733.3	730.3	725.7
35°	716.6	713.6	702.9	699.1	693.0
37.5°	685.4	681.6	671.8	666.4	662.6
40°	653.5	649.7	639.1	632.2	630.0
42.5°	619.3	616.3	605.6	599.6	595.8
45°	586.6	583.6	574.5	565.4	563.1
47.5°	550.9	551.7	540.3	531.2	525.9
50°	516.7	514.5	505.3	495.5	490.1
52.5°	481.8	480.3	470.4	462.0	455.9
55°	446.8	444.5	433.9	427.1	421.7
57.5°	409.6	408.8	399.7	390.6	388.3
60°	374.6	371.6	363.2	355.6	350.3
62.5°	338.2	335.9	329.0	320.7	316.9
65°	301.7	300.2	291.8	285.0	281.9
67.5°	266.0	262.9	256.8	250.8	249.2
70°	232.5	228.7	221.9	217.3	214.3
72.5°	196.1	193.8	190.0	184.7	181.6
75°	160.3	158.8	155.0	152.7	149.7
77.5°	126.9	126.1	123.9	122.3	120.1
80°	95.7	95.7	94.2	93.5	91.9
82.5°	68.4	66.9	66.9	65.4	65.4
85°	41.8	42.6	42.6	41.8	40.3
87.5°	20.5	20.5	19.8	19.8	18.2
90°	0.6	5.2	9.2	12.0	13.2
92.5°	8.6	47.0	229.1	61.2	42.5
95°	18.9	56.0	508.7	230.8	134.9
97.5°	29.3	60.6	549.4	416.8	295.7
100°	40.2	69.5	518.4	589.0	447.8
102.5°	52.2	79.5	463.9	734.9	617.8
105°	64.9	90.7	416.2	819.6	760.7
107.5°	76.9	102.5	380.6	843.4	846.8
110°	90.1	114.8	357.1	820.7	885.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.3	127.2	343.3	773.4	881.3
115°	116.0	139.8	334.1	720.2	847.4
117.5°	127.5	152.7	329.0	672.0	796.3
120°	138.9	165.0	325.5	631.6	746.9
122.5°	151.0	177.1	322.7	599.1	703.3
125°	160.8	188.3	320.4	573.0	667.7
127.5°	168.8	199.2	319.2	550.6	635.0
130°	176.3	209.6	318.1	527.9	609.1
132.5°	182.0	218.8	318.1	503.5	583.3
135°	188.3	226.4	318.1	480.2	554.6
137.5°	196.4	233.6	318.6	455.8	524.7
140°	203.2	239.6	319.2	433.4	493.2
142.5°	211.3	245.4	319.8	414.2	463.9
145°	219.3	251.2	319.2	397.6	437.5
147.5°	227.9	256.4	318.1	383.2	413.9
150°	235.4	261.0	316.3	371.5	395.0
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)