

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: P1028175

Luminaire Tested: S125DIP-B610D850UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028175
REPORT IS A COMBINATION OF REPORTS P1002399 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D850UB35-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

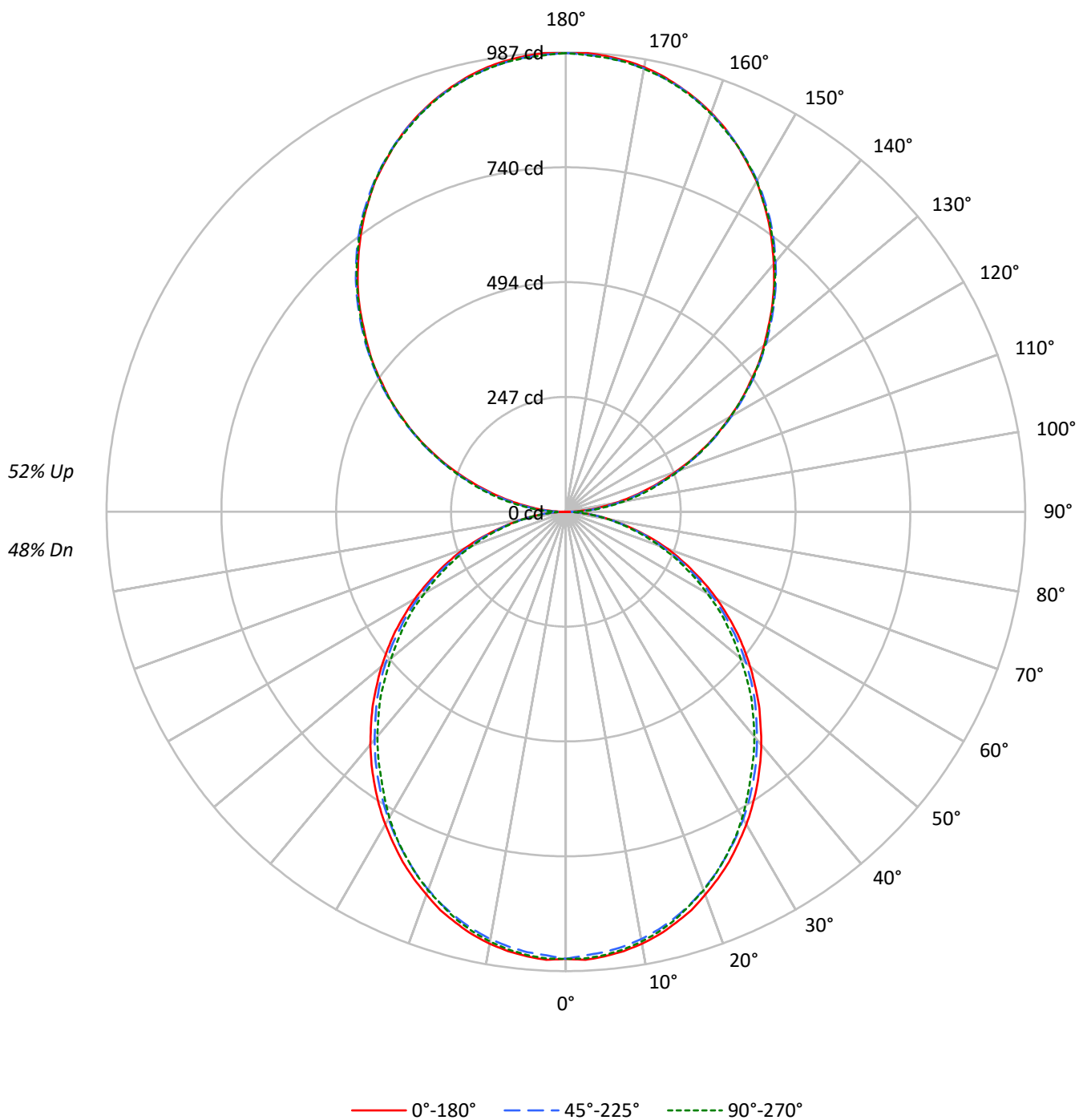
Lumens per Lamp: N/A
Luminaire Lumens: 5252.0 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54
1	97	93	89	85	89	86	82	79	72	69	67	59	58	56	48	46	45
2	88	81	75	70	81	75	69	65	63	59	56	52	49	47	42	40	38
3	81	71	64	58	74	66	59	54	55	51	47	46	42	39	37	35	32
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28
5	68	56	48	42	62	52	45	39	44	38	34	37	33	29	30	27	24
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	21	19
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14

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	1.7
10°-20°	256.0	4.9
20°-30°	378.0	7.2
30°-40°	441.0	8.4
40°-50°	442.9	8.4
50°-60°	388.8	7.4
60°-70°	289.6	5.5
70°-80°	165.4	3.1
80°-90°	49.3	0.9
90°-100°	65.5	1.2
100°-110°	194.7	3.7
110°-120°	330.2	6.3
120°-130°	434.7	8.3
130°-140°	487.1	9.3
140°-150°	477.4	9.1
150°-160°	401.0	7.6
160°-170°	266.6	5.1
170°-180°	93.3	1.8
0°-30°	724.6	13.8
0°-40°	1165.6	22.2
0°-60°	1997.3	38.0
0°-90°	2501.5	47.6
90°-120°	590.4	11.2
90°-150°	1989.6	37.9
90°-180°	2750.0	52.4
0°-180°	5252.0	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	7	12	16	18	6
95°	50	51	59	64	66	52
105°	175	179	183	188	190	186
115°	330	334	335	334	334	327
125°	482	487	488	486	486	432
135°	627	632	633	633	630	484
145°	760	763	765	765	763	475
155°	870	870	870	874	870	401
165°	946	944	945	948	943	267
175°	983	980	980	985	979	93
180°	986	986	986	986	986	

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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°	0.8	6.9	12.3	16.1	18.4
92.5°	23.0	26.8	33.7	39.1	40.6
95°	49.9	51.4	59.1	64.4	66.0
97.5°	76.7	77.5	88.2	92.8	93.6
100°	107.4	107.4	117.3	124.2	125.8
102.5°	140.3	144.2	148.0	155.7	158.0
105°	174.9	178.7	183.3	187.9	190.2
107.5°	212.4	216.3	220.1	222.4	222.4
110°	251.6	255.4	257.7	260.0	259.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	291.4	293.0	296.0	296.8	295.3
115°	330.5	333.6	335.1	334.4	333.6
117.5°	370.4	371.2	372.7	373.5	370.4
120°	407.2	411.1	411.8	411.8	408.8
122.5°	447.1	447.9	450.2	449.4	447.1
125°	482.4	487.0	487.8	486.2	485.5
127.5°	521.5	523.8	524.6	523.8	522.3
130°	556.0	559.9	561.4	560.6	559.1
132.5°	590.5	597.4	596.7	595.9	593.6
135°	627.3	632.0	632.7	632.7	629.6
137.5°	661.9	666.5	668.0	668.8	664.9
140°	694.8	698.7	701.0	702.5	698.7
142.5°	727.8	730.9	734.0	734.7	730.9
145°	760.0	763.1	765.4	765.4	763.1
147.5°	789.9	792.2	793.8	796.1	789.9
150°	819.8	819.1	822.1	822.1	820.6
152.5°	844.4	845.9	846.7	849.0	845.9
155°	869.7	869.7	870.5	873.5	869.7
157.5°	892.7	891.2	891.9	895.0	889.6
160°	912.6	910.3	911.1	914.2	910.3
162.5°	930.3	928.8	928.8	932.6	928.0
165°	945.6	944.1	944.9	947.9	943.3
167.5°	959.4	956.4	956.4	961.0	956.4
170°	970.2	967.1	967.1	971.7	966.3
172.5°	977.8	974.8	974.8	979.4	974.8
175°	983.2	980.1	980.1	984.7	979.4
177.5°	987.0	984.0	983.2	987.8	982.4
180°	985.5	985.5	985.5	985.5	985.5

(END OF REPORT)