

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: P1028086

Luminaire Tested: S125DIP-B610D375UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028086
REPORT IS A COMBINATION OF REPORTS P1002280 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D375UB35-4F0-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

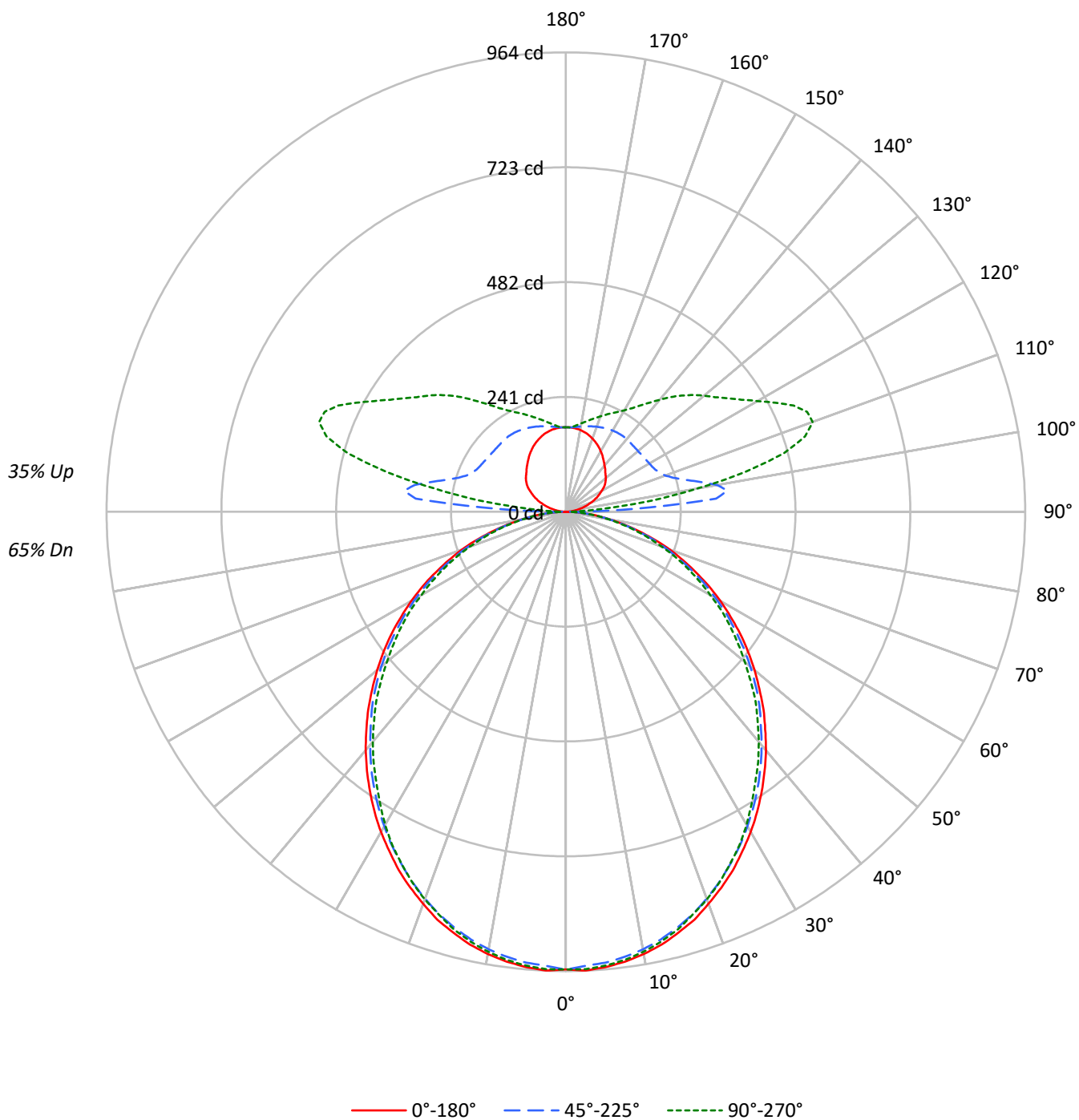
Lumens per Lamp: N/A
Luminaire Lumens: 3833.7 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33.3
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	80	80	80	70	70	70
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59
2	92	84	78	73	86	80	74	69	71	66	62	62	59	56	54	52	50
3	84	74	67	61	79	70	63	58	62	57	52	55	51	47	48	45	42
4	77	66	58	51	72	62	55	49	55	49	45	49	44	41	43	39	36
5	71	59	50	44	66	55	48	42	50	43	39	44	39	35	39	35	32
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28
7	60	48	39	34	57	45	38	32	41	34	30	36	31	27	32	28	25
8	56	43	35	30	53	41	34	29	37	31	27	33	28	24	30	25	22
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18

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	2.4
10°-20°	256.0	6.7
20°-30°	378.0	9.9
30°-40°	441.0	11.5
40°-50°	442.9	11.6
50°-60°	388.8	10.1
60°-70°	289.6	7.6
70°-80°	165.4	4.3
80°-90°	48.5	1.3
90°-100°	133.4	3.5
100°-110°	277.0	7.2
110°-120°	258.8	6.7
120°-130°	209.4	5.5
130°-140°	168.2	4.4
140°-150°	127.0	3.3
150°-160°	89.4	2.3
160°-170°	52.7	1.4
170°-180°	17.1	0.4
0°-30°	724.6	18.9
0°-40°	1165.6	30.4
0°-60°	1997.3	52.1
0°-90°	2500.7	65.2
90°-120°	669.2	17.5
90°-150°	1173.8	30.6
90°-180°	1333.0	34.8
0°-180°	3833.7	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°	0	3	6	8	8	4
95°	12	35	316	144	84	12
105°	40	56	259	510	473	43
115°	72	87	208	448	527	71
125°	100	117	199	356	415	89
135°	117	141	198	299	345	91
145°	136	156	198	247	272	86
155°	156	168	194	219	228	72
165°	170	175	186	197	200	48
175°	177	177	178	180	180	17
180°	177	177	177	177	177	

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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°	0.4	3.2	5.7	7.5	8.2
92.5°	5.4	29.3	142.5	38.0	26.4
95°	11.8	34.8	316.4	143.6	83.9
97.5°	18.2	37.7	341.7	259.2	183.9
100°	25.0	43.2	322.4	366.4	278.5
102.5°	32.5	49.4	288.5	457.0	384.2
105°	40.4	56.4	258.9	509.8	473.1
107.5°	47.8	63.8	236.7	524.6	526.7
110°	56.1	71.4	222.1	510.4	551.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	64.3	79.1	213.5	481.0	548.1
115°	72.1	87.0	207.8	448.0	527.1
117.5°	79.3	95.0	204.6	418.0	495.3
120°	86.4	102.6	202.5	392.8	464.6
122.5°	93.9	110.2	200.7	372.6	437.4
125°	100.0	117.2	199.3	356.4	415.3
127.5°	105.0	124.0	198.5	342.5	394.9
130°	109.6	130.4	197.8	328.3	378.9
132.5°	113.2	136.0	197.8	313.2	362.8
135°	117.1	140.8	197.8	298.7	344.9
137.5°	122.1	145.3	198.2	283.6	326.4
140°	126.4	149.1	198.5	269.6	306.7
142.5°	131.4	152.6	198.9	257.6	288.5
145°	136.4	156.2	198.5	247.3	272.1
147.5°	141.8	159.4	197.8	238.4	257.5
150°	146.4	162.3	196.8	231.0	245.7
152.5°	151.4	165.2	195.3	224.8	236.4
155°	155.7	167.5	193.5	218.7	228.2
157.5°	159.6	169.8	191.8	213.0	220.7
160°	163.5	171.6	190.0	207.2	213.2
162.5°	166.8	173.4	187.8	202.1	206.4
165°	170.0	174.6	185.7	196.9	200.0
167.5°	172.1	175.3	183.5	192.1	193.9
170°	174.3	176.2	181.8	187.4	188.5
172.5°	175.7	176.6	179.6	183.7	183.5
175°	176.8	176.8	178.2	180.3	179.6
177.5°	177.5	176.8	177.1	178.2	177.1
180°	177.1	177.1	177.1	177.1	177.1

(END OF REPORT)