

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: P1028084

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028084
REPORT IS A COMBINATION OF REPORTS P1002278 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-F
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

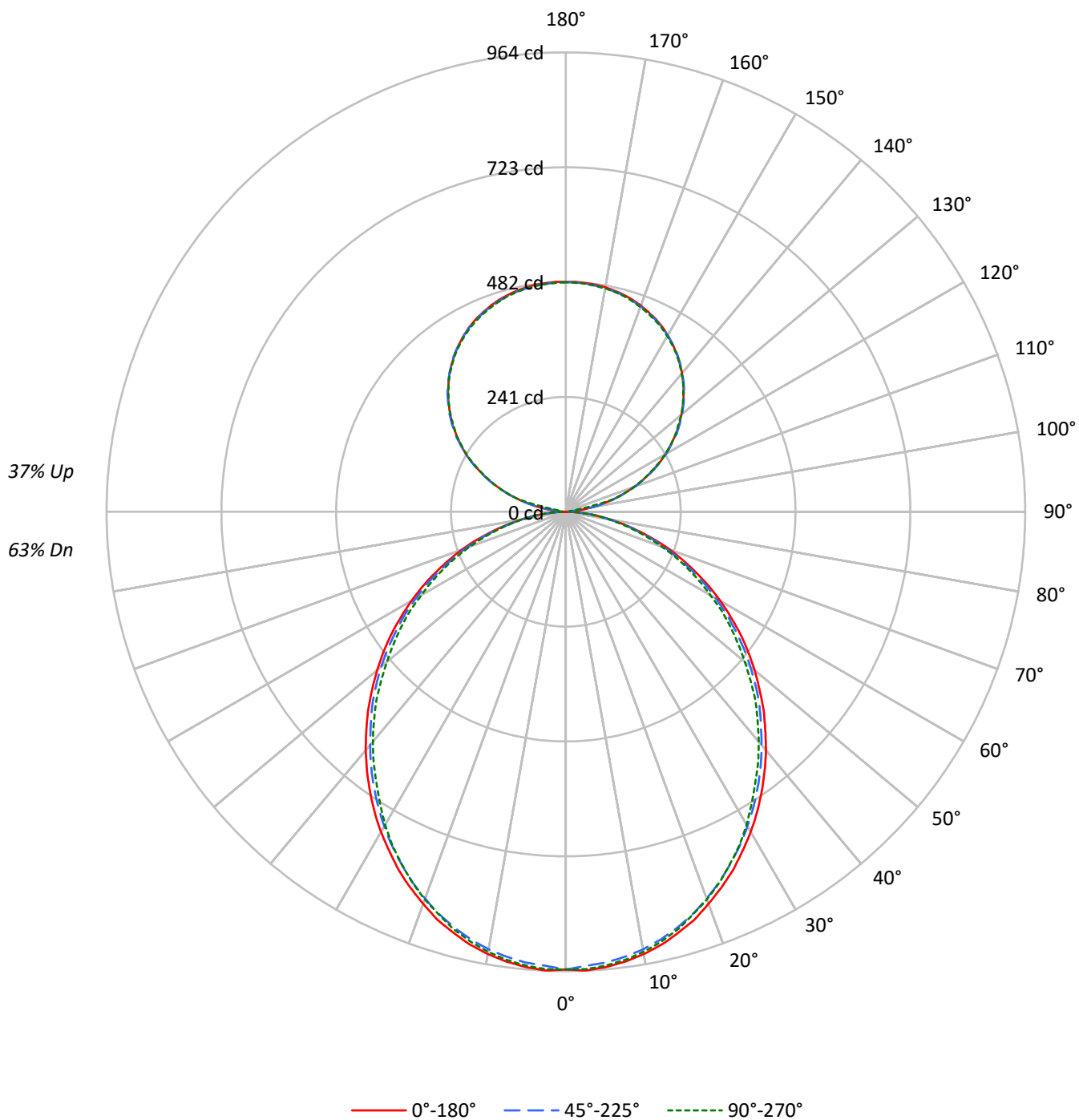
Lumens per Lamp: N/A
Luminaire Lumens: 3981.0 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	60	59	57
2	92	84	78	72	86	79	73	69	69	65	61	61	57	55	53	50	48
3	84	74	66	60	78	69	63	57	61	56	52	54	50	46	47	44	41
4	76	65	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35
5	70	58	50	44	66	55	47	42	49	43	38	43	38	34	38	34	31
6	65	52	44	38	61	49	42	36	44	38	33	39	34	30	34	30	27
7	60	47	39	33	56	45	37	32	40	34	29	35	30	27	31	27	24
8	56	43	35	30	52	41	34	28	36	30	26	32	27	24	29	25	22
9	52	39	32	27	49	37	30	26	34	28	23	30	25	21	26	22	20
10	49	36	29	24	46	34	28	23	31	25	21	28	23	19	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	2.3
10°-20°	256.0	6.4
20°-30°	378.0	9.5
30°-40°	441.0	11.1
40°-50°	442.9	11.1
50°-60°	388.8	9.8
60°-70°	289.6	7.3
70°-80°	165.4	4.2
80°-90°	48.5	1.2
90°-100°	16.4	0.4
100°-110°	108.8	2.7
110°-120°	195.8	4.9
120°-130°	251.4	6.3
130°-140°	270.4	6.8
140°-150°	253.8	6.4
150°-160°	205.3	5.2
160°-170°	132.7	3.3
170°-180°	45.8	1.2
0°-30°	724.6	18.2
0°-40°	1165.6	29.3
0°-60°	1997.3	50.2
0°-90°	2500.7	62.8
90°-120°	321.0	8.1
90°-150°	1096.5	27.5
90°-180°	1480.0	37.2
0°-180°	3981.0	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°	0	3	6	8	9	4
95°	20	19	6	8	8	25
105°	105	106	106	106	106	111
115°	197	199	199	198	196	195
125°	280	283	283	282	280	251
135°	350	352	351	350	348	270
145°	406	406	406	406	404	254
155°	446	444	445	446	443	206
165°	471	469	469	472	469	133
175°	482	480	480	483	480	46
180°	482	482	482	482	482	

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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	8.6
92.5°	6.8	3.6	5.7	7.5	7.9
95°	20.4	19.3	5.7	7.5	7.5
97.5°	38.2	40.4	6.4	7.1	7.5
100°	59.7	60.7	62.2	8.9	7.5
102.5°	81.4	82.9	83.6	84.3	54.3
105°	105.0	106.5	106.5	106.5	106.1
107.5°	129.3	129.3	130.0	130.4	129.0
110°	152.9	152.9	153.6	152.5	152.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	175.0	176.1	176.5	175.0	174.3
115°	197.2	199.0	199.3	197.9	195.8
117.5°	220.4	220.4	221.8	219.7	219.0
120°	241.8	241.5	242.6	241.8	240.1
122.5°	260.8	262.6	262.9	262.2	260.1
125°	280.4	282.9	282.9	281.5	280.4
127.5°	299.4	301.1	300.8	300.1	297.2
130°	316.5	318.3	318.6	317.6	315.8
132.5°	333.6	335.8	334.7	334.7	332.9
135°	349.7	351.9	351.2	350.4	348.3
137.5°	364.7	366.9	366.2	366.2	364.4
140°	379.4	380.1	379.7	380.4	378.3
142.5°	392.6	392.9	393.7	393.7	391.5
145°	405.5	406.2	406.2	406.5	404.4
147.5°	416.9	416.9	417.2	417.6	415.1
150°	427.6	426.9	427.6	428.3	425.5
152.5°	438.0	436.2	436.9	437.6	435.1
155°	446.5	444.4	445.1	446.2	443.3
157.5°	453.3	452.2	452.2	453.3	450.5
160°	460.5	458.3	458.7	460.1	457.2
162.5°	466.2	464.0	464.4	466.5	463.3
165°	471.2	469.0	469.4	471.5	468.7
167.5°	475.1	473.0	473.3	475.8	472.6
170°	478.3	475.8	476.2	479.0	475.8
172.5°	480.5	478.0	478.7	481.2	478.0
175°	481.9	479.8	480.1	483.0	479.8
177.5°	483.0	480.8	481.2	483.7	480.8
180°	481.9	481.9	481.9	481.9	481.9

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