

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: P1027935

Luminaire Tested: S125DIP-B375D850UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027935
REPORT IS A COMBINATION OF REPORTS P1002066 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D850UB27-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

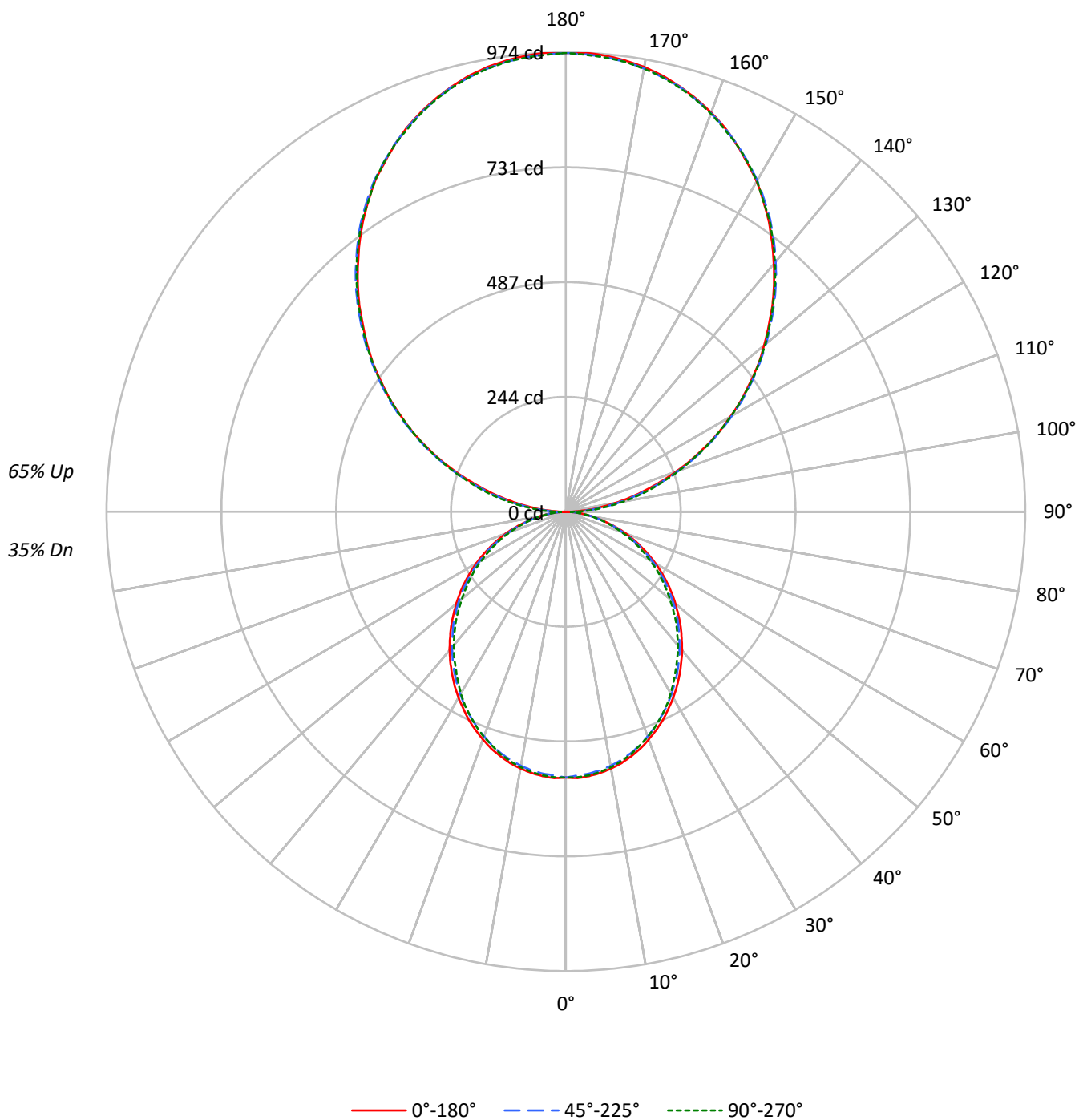
Lumens per Lamp: N/A
Luminaire Lumens: 4184.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
Input Voltage (V):
Input Current (A_{in}): 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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42
1	94	90	86	83	85	82	78	75	66	63	61	51	49	48	37	37	36
2	86	79	73	68	77	71	66	62	57	54	51	45	42	40	33	31	30
3	78	69	62	56	70	63	57	52	51	46	43	39	36	34	29	27	26
4	72	61	53	47	64	55	49	44	45	40	36	35	32	29	26	24	22
5	66	54	46	40	59	49	42	37	40	35	31	31	28	25	23	21	19
6	60	49	41	35	54	44	37	32	36	31	27	28	25	22	21	19	17
7	56	44	36	31	50	40	33	28	33	27	24	26	22	19	19	17	15
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	13
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3611	3611	3611
5°	3611	3528	3534
10°	3581	3446	3436
15°	3534	3350	3320
20°	3471	3238	3187
25°	3402	3115	3045
30°	3321	2988	2894
35°	3232	2855	2726
40°	3142	2713	2577
45°	3043	2575	2418
50°	2935	2419	2233
55°	2828	2247	2063
60°	2700	2065	1865
65°	2547	1855	1660
70°	2391	1614	1424
75°	2131	1330	1151
80°	1816	993	848
85°	1401	588	466

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3043 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	1.3
10°-20°	150.2	3.6
20°-30°	221.8	5.3
30°-40°	258.8	6.2
40°-50°	259.9	6.2
50°-60°	228.1	5.5
60°-70°	169.9	4.1
70°-80°	97.1	2.3
80°-90°	29.5	0.7
90°-100°	64.7	1.5
100°-110°	192.2	4.6
110°-120°	326.0	7.8
120°-130°	429.1	10.3
130°-140°	480.9	11.5
140°-150°	471.4	11.3
150°-160°	395.9	9.5
160°-170°	263.2	6.3
170°-180°	92.1	2.2
0°-30°	425.2	10.2
0°-40°	684.0	16.3
0°-60°	1172.0	28.0
0°-90°	1468.5	35.1
90°-120°	582.9	13.9
90°-150°	1964.3	46.9
90°-180°	2715.0	64.9
0°-180°	4184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	563	562	557	561	561	53
15°	536	535	530	532	532	151
25°	487	485	479	480	478	224
35°	420	419	412	410	407	263
45°	344	342	337	332	330	265
55°	262	261	255	251	248	234
65°	177	176	171	167	165	176
75°	94	93	91	90	88	100
85°	24	25	25	24	24	27
90°	1	7	12	16	18	5
95°	49	51	58	64	65	51
105°	173	176	181	186	188	184
115°	326	329	331	330	329	323
125°	476	481	482	480	479	427
135°	619	624	625	625	622	477
145°	750	753	756	756	753	469
155°	859	859	859	862	859	396
165°	934	932	933	936	931	263
175°	971	968	968	972	967	92
180°	973	973	973	973	973	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	563.6	563.6	563.6	563.6	563.6
2.5°	565.4	564.1	559.6	564.1	563.6
5°	562.7	561.9	557.4	561.4	561.0
7.5°	558.7	557.8	552.9	556.9	556.5
10°	552.9	552.0	547.1	550.7	550.3
12.5°	545.8	544.0	539.6	542.2	542.2
15°	536.4	535.1	530.2	532.4	532.4
17.5°	526.6	524.4	519.5	522.2	519.9
20°	513.7	512.8	507.0	510.1	507.9
22.5°	500.8	499.0	493.6	495.4	494.1
25°	486.9	484.7	478.9	479.8	478.5
27.5°	470.9	469.5	463.7	464.2	462.9
30°	455.3	453.9	447.3	446.4	445.0
32.5°	438.3	436.1	430.3	428.5	425.8
35°	420.5	418.7	412.5	410.2	406.7
37.5°	402.2	400.0	394.2	391.1	388.8
40°	383.5	381.3	375.0	371.0	369.7
42.5°	363.4	361.6	355.4	351.8	349.6
45°	344.2	342.5	337.1	331.8	330.4
47.5°	323.3	323.7	317.0	311.7	308.6
50°	303.2	301.9	296.5	290.7	287.6
52.5°	282.7	281.8	276.0	271.1	267.5
55°	262.2	260.9	254.6	250.6	247.5
57.5°	240.3	239.9	234.6	229.2	227.9
60°	219.8	218.1	213.1	208.7	205.6
62.5°	198.4	197.1	193.1	188.2	185.9
65°	177.0	176.1	171.2	167.2	165.4
67.5°	156.1	154.3	150.7	147.2	146.3
70°	136.4	134.2	130.2	127.5	125.7
72.5°	115.0	113.7	111.5	108.4	106.6
75°	94.1	93.2	91.0	89.6	87.8
77.5°	74.5	74.0	72.7	71.8	70.5
80°	56.2	56.2	55.3	54.8	54.0
82.5°	40.1	39.2	39.2	38.3	38.3
85°	24.5	25.0	25.0	24.5	23.6
87.5°	12.0	12.0	11.6	11.6	10.7
90°	0.8	6.8	12.1	15.9	18.2
92.5°	22.7	26.5	33.3	38.6	40.1
95°	49.2	50.7	58.3	63.6	65.1
97.5°	75.7	76.5	87.1	91.6	92.4
100°	106.0	106.0	115.8	122.7	124.2
102.5°	138.6	142.3	146.1	153.7	156.0
105°	172.6	176.4	181.0	185.5	187.8
107.5°	209.7	213.5	217.3	219.6	219.6
110°	248.4	252.1	254.4	256.7	255.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	287.7	289.2	292.3	293.0	291.5
115°	326.3	329.4	330.9	330.1	329.4
117.5°	365.7	366.5	368.0	368.7	365.7
120°	402.1	405.8	406.6	406.6	403.6
122.5°	441.4	442.2	444.5	443.7	441.4
125°	476.3	480.8	481.6	480.0	479.3
127.5°	514.9	517.2	517.9	517.2	515.6
130°	549.0	552.7	554.3	553.5	552.0
132.5°	583.0	589.8	589.1	588.3	586.1
135°	619.4	623.9	624.7	624.7	621.6
137.5°	653.4	658.0	659.5	660.3	656.5
140°	686.0	689.8	692.1	693.6	689.8
142.5°	718.6	721.6	724.6	725.4	721.6
145°	750.4	753.4	755.7	755.7	753.4
147.5°	779.9	782.2	783.7	785.9	779.9
150°	809.4	808.7	811.7	811.7	810.2
152.5°	833.7	835.2	835.9	838.2	835.2
155°	858.6	858.6	859.4	862.4	858.6
157.5°	881.4	879.8	880.6	883.6	878.3
160°	901.0	898.8	899.5	902.6	898.8
162.5°	918.5	916.9	916.9	920.7	916.2
165°	933.6	932.1	932.8	935.9	931.3
167.5°	947.2	944.2	944.2	948.7	944.2
170°	957.8	954.8	954.8	959.3	954.0
172.5°	965.4	962.4	962.4	966.9	962.4
175°	970.7	967.7	967.7	972.2	966.9
177.5°	974.5	971.5	970.7	975.2	969.9
180°	973.0	973.0	973.0	973.0	973.0

(END OF REPORT)