

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: P1027931

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027931
REPORT IS A COMBINATION OF REPORTS P1002062 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-D
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

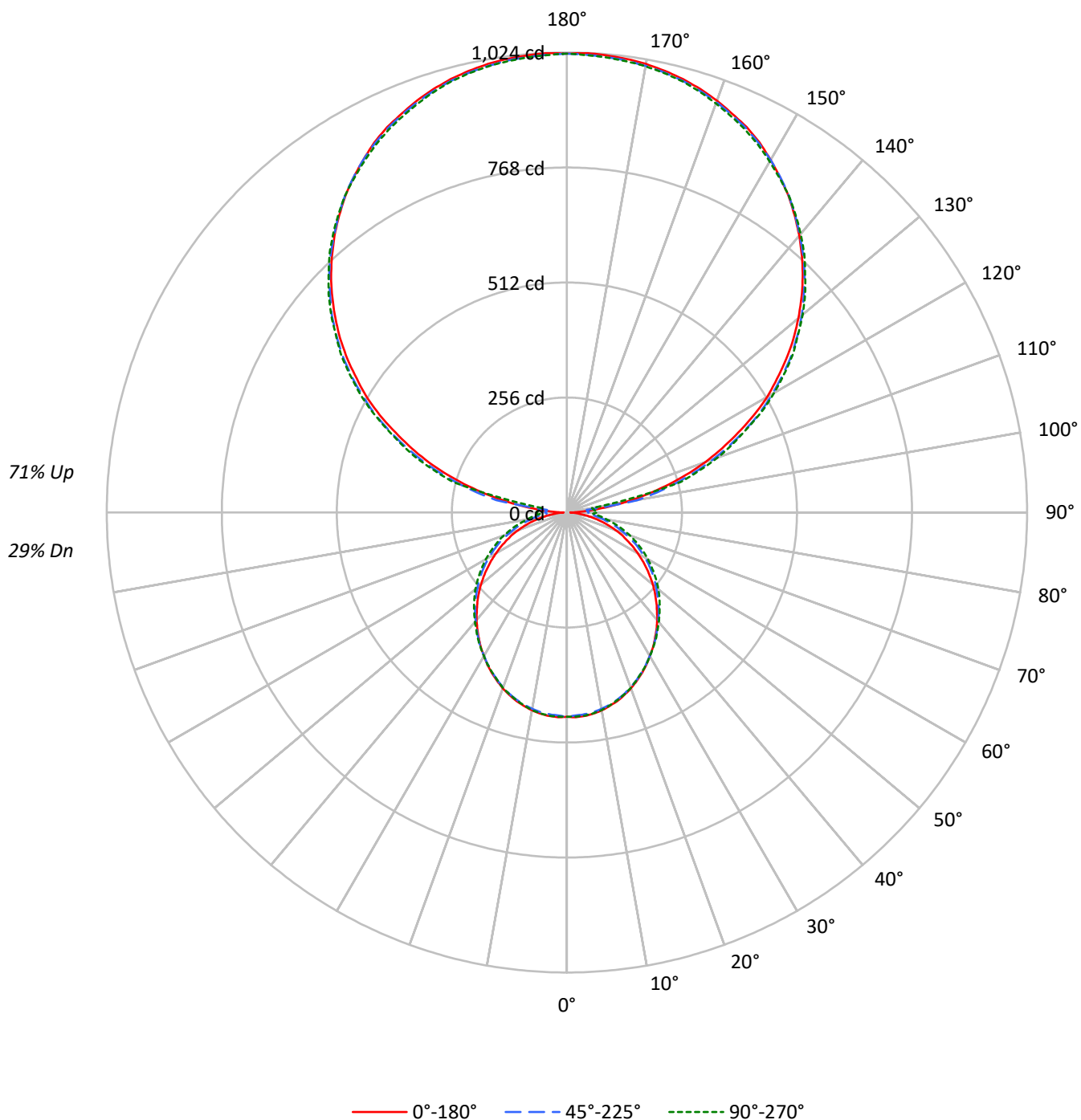
Lumens per Lamp: N/A
Luminaire Lumens: 4548.0 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
Input Voltage (V):
Input Current (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

TEST NUMBER: P1027931

CATALOG NUMBER: S125DIP-B375D850UB27-4F0-XX-W2A-D

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37
1	93	88	84	81	83	79	76	73	62	60	58	46	45	44	32	31	30
2	84	77	71	66	75	69	64	59	54	51	47	40	38	36	28	26	25
3	77	67	60	54	68	60	54	49	48	43	40	36	33	30	25	23	21
4	70	59	52	46	62	53	47	42	42	37	34	32	28	26	22	20	18
5	64	53	45	39	57	47	41	35	37	33	29	28	25	22	20	17	16
6	59	47	39	33	52	42	36	31	34	29	25	25	22	19	18	15	14
7	54	42	35	29	48	38	31	27	30	25	22	23	20	17	16	14	12
8	50	38	31	26	45	35	28	23	28	23	19	21	17	15	15	12	11
9	47	35	27	23	42	31	25	21	25	20	17	19	16	13	14	11	10
10	44	32	25	20	39	29	23	18	23	18	15	18	14	12	13	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2914	2914	2914
5°	2919	2853	2860
10°	2897	2795	2787
15°	2862	2727	2697
20°	2814	2646	2608
25°	2757	2558	2500
30°	2690	2464	2401
35°	2626	2376	2311
40°	2561	2284	2220
45°	2488	2204	2138
50°	2417	2117	2064
55°	2333	2034	1977
60°	2240	1940	1889
65°	2143	1841	1790
70°	2032	1708	1686
75°	1857	1577	1561
80°	1629	1417	1421
85°	1401	1289	1347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2488 cd/sqm

TEST NUMBER: P1027931

CATALOG NUMBER: S125DIP-B375D850UB27-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	0.9
10°-20°	122.2	2.7
20°-30°	181.7	4.0
30°-40°	215.2	4.7
40°-50°	222.5	4.9
50°-60°	204.9	4.5
60°-70°	165.7	3.6
70°-80°	110.8	2.4
80°-90°	58.8	1.3
90°-100°	66.9	1.5
100°-110°	254.3	5.6
110°-120°	431.0	9.5
120°-130°	541.8	11.9
130°-140°	577.0	12.7
140°-150°	538.6	11.8
150°-160°	435.1	9.6
160°-170°	281.4	6.2
170°-180°	97.0	2.1
0°-30°	346.9	7.6
0°-40°	562.1	12.4
0°-60°	989.5	21.8
0°-90°	1324.8	29.1
90°-120°	752.3	16.5
90°-150°	2409.8	53.0
90°-180°	3223.0	70.9
0°-180°	4548.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	455	454	451	454	454	43
15°	434	435	432	434	432	122
25°	395	396	393	395	393	182
35°	342	345	343	345	345	214
45°	281	286	288	292	292	217
55°	216	223	230	235	237	193
65°	149	159	170	177	178	148
75°	82	94	108	117	119	87
85°	24	39	55	65	68	26
90°	8	28	49	63	68	7
95°	49	58	45	58	61	57
105°	227	237	250	259	262	240
115°	421	428	440	445	443	417
125°	596	601	610	614	614	532
135°	742	746	748	752	750	572
145°	860	861	861	864	861	538
155°	946	942	943	946	940	436
165°	999	994	995	999	993	282
175°	1021	1017	1018	1024	1017	97
180°	1021	1021	1021	1021	1021	

TEST NUMBER: P1027931

CATALOG NUMBER: S125DIP-B375D850UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	454.8	454.8	454.8	454.8	454.8
2.5°	456.2	455.3	452.2	455.3	454.8
5°	454.8	453.9	450.8	454.4	453.9
7.5°	451.7	451.3	448.1	451.3	450.8
10°	447.3	447.3	443.7	446.8	446.4
12.5°	441.0	441.5	438.8	441.0	439.7
15°	434.3	434.8	431.6	434.3	432.5
17.5°	425.9	426.7	423.6	425.9	424.5
20°	416.5	417.4	414.3	415.6	415.6
22.5°	405.8	407.6	404.0	405.8	404.4
25°	394.6	396.0	393.3	395.1	392.9
27.5°	382.6	384.4	381.3	382.6	381.7
30°	368.8	371.4	368.8	369.7	369.2
32.5°	356.3	358.5	356.7	357.6	357.2
35°	341.6	344.7	343.4	344.7	344.7
37.5°	327.3	330.0	329.5	331.3	330.9
40°	312.6	316.2	315.7	317.5	318.4
42.5°	296.5	301.4	302.8	305.0	305.0
45°	281.4	286.3	288.5	291.6	292.1
47.5°	265.8	270.2	273.8	278.3	279.1
50°	249.7	254.6	259.5	264.4	265.8
52.5°	232.8	239.0	245.3	250.6	251.5
55°	216.3	223.4	230.5	235.4	237.2
57.5°	199.3	207.8	215.8	221.2	222.5
60°	182.4	191.3	200.2	206.9	208.2
62.5°	165.9	174.8	184.6	192.2	194.0
65°	148.9	159.2	169.9	176.6	178.4
67.5°	133.3	143.1	153.8	161.9	164.1
70°	115.9	126.2	137.8	146.3	148.9
72.5°	99.0	109.7	122.6	132.0	133.8
75°	82.0	93.6	107.9	116.8	119.1
77.5°	65.5	78.9	92.3	102.1	103.9
80°	50.4	63.8	78.9	88.7	90.5
82.5°	36.6	50.8	66.4	75.8	79.4
85°	24.5	39.2	54.8	64.7	68.2
87.5°	15.6	29.9	45.0	55.3	58.4
90°	7.9	28.2	48.7	62.7	68.1
92.5°	20.6	26.8	46.9	60.5	64.4
95°	49.0	58.3	44.7	58.3	61.4
97.5°	86.4	101.7	44.4	55.2	59.2
100°	131.3	143.0	160.2	56.8	56.5
102.5°	177.1	188.6	204.0	214.4	153.4
105°	226.6	236.7	250.1	259.0	261.5
107.5°	277.7	283.9	298.3	308.1	307.6
110°	327.2	332.6	346.6	352.7	356.7

TEST NUMBER: P1027931

CATALOG NUMBER: S125DIP-B375D850UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	374.1	380.4	393.2	398.2	399.8
115°	420.6	427.5	439.9	444.9	443.0
117.5°	469.4	471.7	485.8	488.8	490.4
120°	514.8	515.4	527.9	534.0	532.9
122.5°	554.5	558.7	569.3	574.9	573.0
125°	596.2	601.0	610.0	614.0	614.0
127.5°	635.8	639.2	646.0	651.2	647.7
130°	672.1	675.5	682.5	686.5	684.9
132.5°	708.1	712.6	714.8	721.0	719.1
135°	742.1	746.2	747.9	752.2	749.8
137.5°	773.9	778.0	778.3	783.7	781.7
140°	804.5	806.0	805.7	812.2	809.4
142.5°	832.5	832.9	834.4	838.4	835.6
145°	859.8	860.9	860.9	863.8	861.1
147.5°	883.6	883.6	884.3	886.0	881.6
150°	906.3	904.8	906.3	907.8	902.2
152.5°	928.3	924.5	926.0	927.5	922.2
155°	946.4	941.9	943.4	945.7	939.6
157.5°	960.8	958.5	958.5	960.8	954.8
160°	976.0	971.4	972.2	975.2	969.1
162.5°	988.1	983.5	984.3	988.8	982.0
165°	998.7	994.1	994.9	999.4	993.4
167.5°	1007.0	1002.5	1003.2	1008.5	1001.7
170°	1013.8	1008.5	1009.3	1015.3	1008.5
172.5°	1018.4	1013.1	1014.6	1019.9	1013.1
175°	1021.4	1016.8	1017.6	1023.7	1016.8
177.5°	1023.7	1019.1	1019.9	1025.2	1019.1
180°	1021.4	1021.4	1021.4	1021.4	1021.4

(END OF REPORT)