

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: P1027934

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027934
REPORT IS A COMBINATION OF REPORTS P1002065 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-F
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

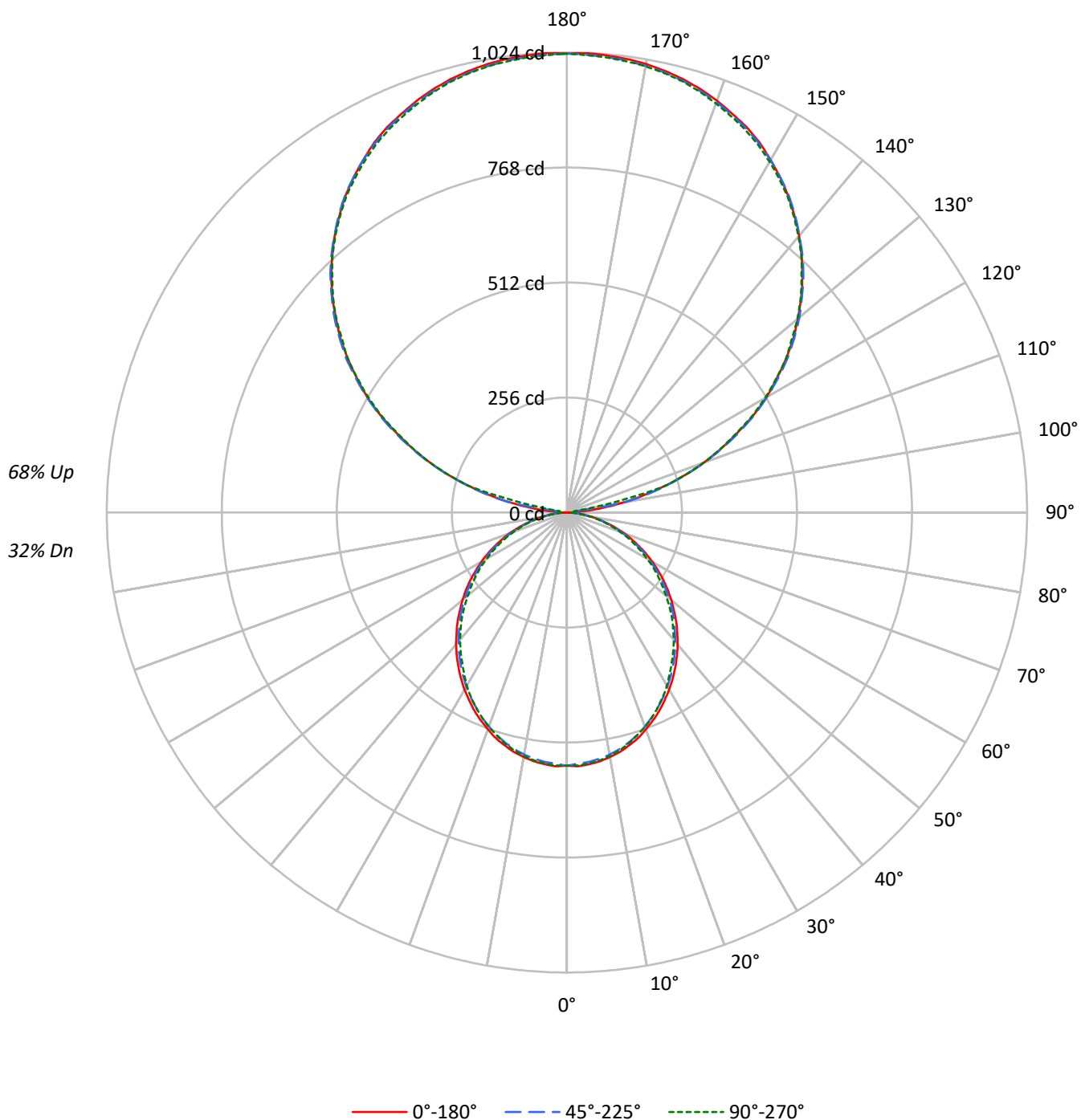
Lumens per Lamp: N/A
Luminaire Lumens: 4606.0 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	39	39	39
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33
2	85	78	72	67	76	70	65	61	56	53	50	43	41	38	31	29	28
3	78	69	61	56	70	62	56	51	49	45	42	38	35	32	27	25	24
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12
9	48	36	28	24	43	32	26	22	26	22	18	21	17	15	15	13	11
10	44	33	26	21	40	30	24	19	24	19	16	19	16	13	14	12	10

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	1.2
10°-20°	150.2	3.3
20°-30°	221.8	4.8
30°-40°	258.8	5.6
40°-50°	259.9	5.6
50°-60°	228.1	5.0
60°-70°	169.9	3.7
70°-80°	97.1	2.1
80°-90°	29.5	0.6
90°-100°	34.7	0.8
100°-110°	230.5	5.0
110°-120°	415.1	9.0
120°-130°	532.8	11.6
130°-140°	573.1	12.4
140°-150°	537.9	11.7
150°-160°	435.1	9.4
160°-170°	281.4	6.1
170°-180°	97.0	2.1
0°-30°	425.2	9.2
0°-40°	684.0	14.8
0°-60°	1172.0	25.4
0°-90°	1468.5	31.9
90°-120°	680.3	14.8
90°-150°	2324.0	50.5
90°-180°	3137.0	68.1
0°-180°	4606.0	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	4
95°	43	41	12	16	16	53
105°	223	226	226	226	225	236
115°	418	422	422	420	415	414
125°	594	600	600	597	594	531
135°	741	746	744	743	738	571
145°	859	861	861	862	857	537
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	

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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°	14.4	7.6	12.1	15.9	16.7
95°	43.2	40.9	12.1	15.9	15.9
97.5°	81.0	85.6	13.6	15.1	15.9
100°	126.4	128.7	131.7	18.9	15.9
102.5°	172.6	175.7	177.2	178.7	115.1
105°	222.6	225.6	225.6	225.6	224.9
107.5°	274.1	274.1	275.6	276.4	273.3
110°	324.1	324.1	325.6	323.3	324.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	371.0	373.3	374.0	371.0	369.5
115°	417.9	421.7	422.5	419.5	414.9
117.5°	467.2	467.2	470.2	465.6	464.1
120°	512.6	511.8	514.1	512.6	508.8
122.5°	552.7	556.5	557.3	555.7	551.2
125°	594.4	599.7	599.7	596.6	594.4
127.5°	634.5	638.3	637.5	636.0	629.9
130°	670.8	674.6	675.4	673.1	669.3
132.5°	707.2	711.7	709.4	709.4	705.7
135°	741.2	745.8	744.3	742.8	738.2
137.5°	773.0	777.6	776.1	776.1	772.3
140°	804.1	805.6	804.8	806.4	801.8
142.5°	832.1	832.9	834.4	834.4	829.8
145°	859.4	860.9	860.9	861.6	857.1
147.5°	883.6	883.6	884.3	885.1	879.8
150°	906.3	904.8	906.3	907.8	901.8
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)