

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: P1028326

Luminaire Tested: S125DIP-B850D375UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028326
REPORT IS A COMBINATION OF REPORTS P1002598 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D375UB50-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

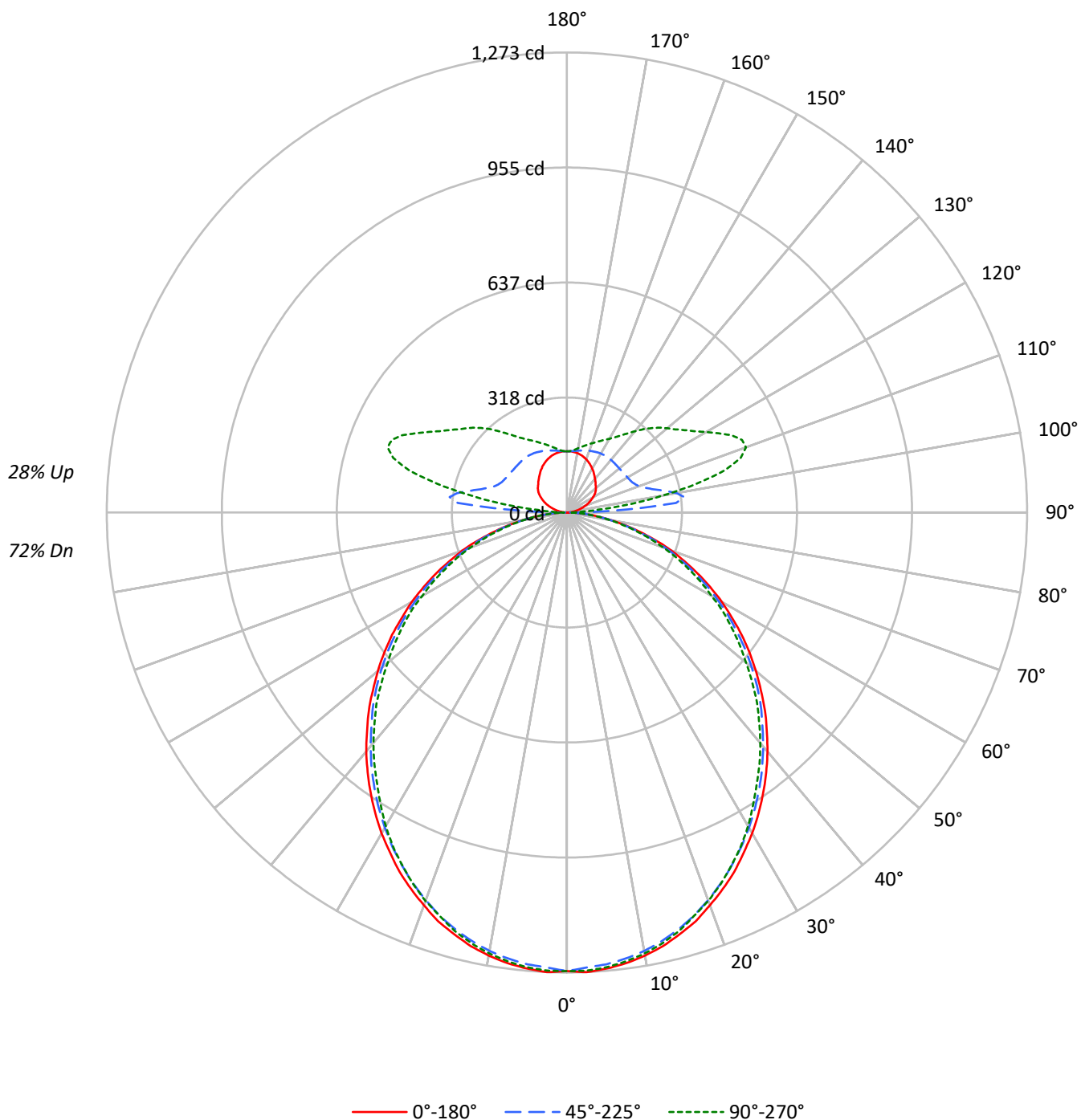
Lumens per Lamp: N/A
Luminaire Lumens: 4579.6 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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: P1028326

CATALOG NUMBER: S125DIP-B850D375UB50-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1028326

CATALOG NUMBER: S125DIP-B850D375UB50-4F0-XX-W2A-F4

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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76
1	103	98	94	90	97	93	90	86	84	81	79	75	73	71	67	66	64
2	93	86	79	74	88	81	76	71	73	69	65	66	63	60	59	57	54
3	85	75	68	62	81	72	65	59	65	59	55	58	54	50	53	49	46
4	78	67	59	52	74	64	56	50	58	52	47	52	47	43	47	43	40
5	72	60	51	45	68	57	49	43	52	45	40	47	42	37	42	38	35
6	66	54	45	39	63	51	43	38	47	40	35	42	37	33	38	34	31
7	61	49	40	34	58	46	39	33	42	36	31	39	33	29	35	31	27
8	57	44	36	31	54	42	35	30	39	32	28	35	30	26	32	28	24
9	53	40	33	27	50	39	32	27	36	29	25	33	27	24	30	25	22
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8131	8131	8131
5°	8131	7942	7957
10°	8064	7760	7735
15°	7958	7542	7475
20°	7815	7289	7175
25°	7662	7014	6855
30°	7476	6727	6517
35°	7278	6427	6138
40°	7073	6109	5802
45°	6852	5799	5445
50°	6608	5448	5028
55°	6367	5060	4645
60°	6080	4651	4199
65°	5735	4178	3738
70°	5385	3635	3206
75°	4796	2992	2593
80°	4088	2235	1907
85°	3156	1321	1051

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6852 cd/sqm

TEST NUMBER: P1028326

CATALOG NUMBER: S125DIP-B850D375UB50-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	2.6
10°-20°	338.2	7.4
20°-30°	499.4	10.9
30°-40°	582.6	12.7
40°-50°	585.2	12.8
50°-60°	513.6	11.2
60°-70°	382.6	8.4
70°-80°	218.5	4.8
80°-90°	63.8	1.4
90°-100°	127.6	2.8
100°-110°	265.2	5.8
110°-120°	247.7	5.4
120°-130°	200.4	4.4
130°-140°	161.0	3.5
140°-150°	121.6	2.7
150°-160°	85.6	1.9
160°-170°	50.4	1.1
170°-180°	16.4	0.4
0°-30°	957.4	20.9
0°-40°	1540.0	33.6
0°-60°	2638.8	57.6
0°-90°	3303.7	72.1
90°-120°	640.5	14.0
90°-150°	1123.5	24.5
90°-180°	1276.0	27.9
0°-180°	4579.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1267	1265	1255	1264	1263	120
15°	1208	1205	1194	1199	1199	341
25°	1096	1091	1078	1080	1077	504
35°	947	943	929	924	916	592
45°	775	771	759	747	744	597
55°	590	587	573	564	557	527
65°	399	397	386	376	372	395
75°	212	210	205	202	198	226
85°	55	56	56	55	53	60
90°	0	3	6	7	8	4
95°	11	33	303	137	80	12
105°	39	54	248	488	453	41
115°	69	83	199	429	504	68
125°	96	112	191	341	398	85
135°	112	135	189	286	330	87
145°	131	150	190	237	260	82
155°	149	160	185	209	218	69
165°	163	167	178	188	191	46
175°	169	169	171	173	172	16
180°	170	170	170	170	170	

TEST NUMBER: P1028326

CATALOG NUMBER: S125DIP-B850D375UB50-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.0	1269.0	1269.0	1269.0	1269.0
2.5°	1273.1	1270.0	1260.0	1270.0	1269.0
5°	1267.0	1265.0	1255.0	1264.0	1263.0
7.5°	1258.0	1256.0	1244.9	1254.0	1253.0
10°	1244.9	1242.9	1231.9	1239.9	1238.9
12.5°	1228.9	1224.9	1214.8	1220.8	1220.8
15°	1207.8	1204.8	1193.7	1198.8	1198.8
17.5°	1185.7	1180.7	1169.6	1175.7	1170.6
20°	1156.6	1154.6	1141.5	1148.6	1143.5
22.5°	1127.5	1123.5	1111.4	1115.4	1112.4
25°	1096.4	1091.3	1078.3	1080.3	1077.3
27.5°	1060.2	1057.2	1044.1	1045.2	1042.1
30°	1025.1	1022.1	1007.0	1005.0	1002.0
32.5°	986.9	981.9	968.8	964.8	958.8
35°	946.8	942.7	928.7	923.7	915.6
37.5°	905.6	900.6	887.5	880.5	875.5
40°	863.4	858.4	844.4	835.3	832.3
42.5°	818.2	814.2	800.2	792.1	787.1
45°	775.1	771.1	759.0	747.0	744.0
47.5°	727.9	728.9	713.8	701.8	694.8
50°	682.7	679.7	667.7	654.6	647.6
52.5°	636.5	634.5	621.5	610.4	602.4
55°	590.3	587.3	573.3	564.2	557.2
57.5°	541.1	540.1	528.1	516.0	513.0
60°	495.0	490.9	479.9	469.9	462.8
62.5°	446.8	443.8	434.7	423.7	418.7
65°	398.6	396.6	385.5	376.5	372.5
67.5°	351.4	347.4	339.3	331.3	329.3
70°	307.2	302.2	293.2	287.1	283.1
72.5°	259.0	256.0	251.0	244.0	240.0
75°	211.8	209.8	204.8	201.8	197.8
77.5°	167.7	166.7	163.6	161.6	158.6
80°	126.5	126.5	124.5	123.5	121.5
82.5°	90.4	88.4	88.4	86.3	86.3
85°	55.2	56.2	56.2	55.2	53.2
87.5°	27.1	27.1	26.1	26.1	24.1
90°	0.3	3.0	5.5	7.2	7.9
92.5°	5.1	28.0	136.4	36.4	25.3
95°	11.3	33.3	302.8	137.4	80.3
97.5°	17.4	36.0	327.1	248.1	176.0
100°	23.9	41.4	308.6	350.7	266.6
102.5°	31.1	47.3	276.2	437.5	367.8
105°	38.6	54.0	247.8	487.9	452.9
107.5°	45.8	61.0	226.6	502.1	504.1
110°	53.7	68.4	212.6	488.6	527.4

TEST NUMBER: P1028326

CATALOG NUMBER: S125DIP-B850D375UB50-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	61.5	75.7	204.4	460.4	524.6
115°	69.0	83.2	198.9	428.8	504.5
117.5°	75.9	90.9	195.8	400.1	474.1
120°	82.7	98.2	193.8	376.0	444.7
122.5°	89.9	105.4	192.1	356.6	418.7
125°	95.7	112.2	190.7	341.1	397.5
127.5°	100.5	118.6	190.0	327.8	378.0
130°	104.9	124.8	189.4	314.3	362.6
132.5°	108.3	130.2	189.4	299.8	347.3
135°	112.1	134.8	189.4	285.9	330.2
137.5°	116.9	139.1	189.7	271.4	312.4
140°	121.0	142.7	190.0	258.0	293.6
142.5°	125.8	146.1	190.4	246.6	276.2
145°	130.6	149.6	190.0	236.7	260.4
147.5°	135.7	152.6	189.4	228.2	246.4
150°	140.1	155.3	188.3	221.2	235.2
152.5°	144.9	158.0	187.0	215.2	226.3
155°	149.0	160.3	185.3	209.4	218.4
157.5°	152.8	162.5	183.5	203.9	211.2
160°	156.5	164.2	181.8	198.4	204.0
162.5°	159.6	165.9	179.8	193.4	197.6
165°	162.7	167.1	177.7	188.5	191.4
167.5°	164.7	167.8	175.7	183.9	185.6
170°	166.8	168.7	174.0	179.4	180.5
172.5°	168.2	169.0	171.9	175.8	175.7
175°	169.2	169.2	170.6	172.6	171.9
177.5°	169.9	169.2	169.5	170.6	169.5
180°	169.5	169.5	169.5	169.5	169.5

(END OF REPORT)