

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: P1028324

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028324
REPORT IS A COMBINATION OF REPORTS P1002596 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-F
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

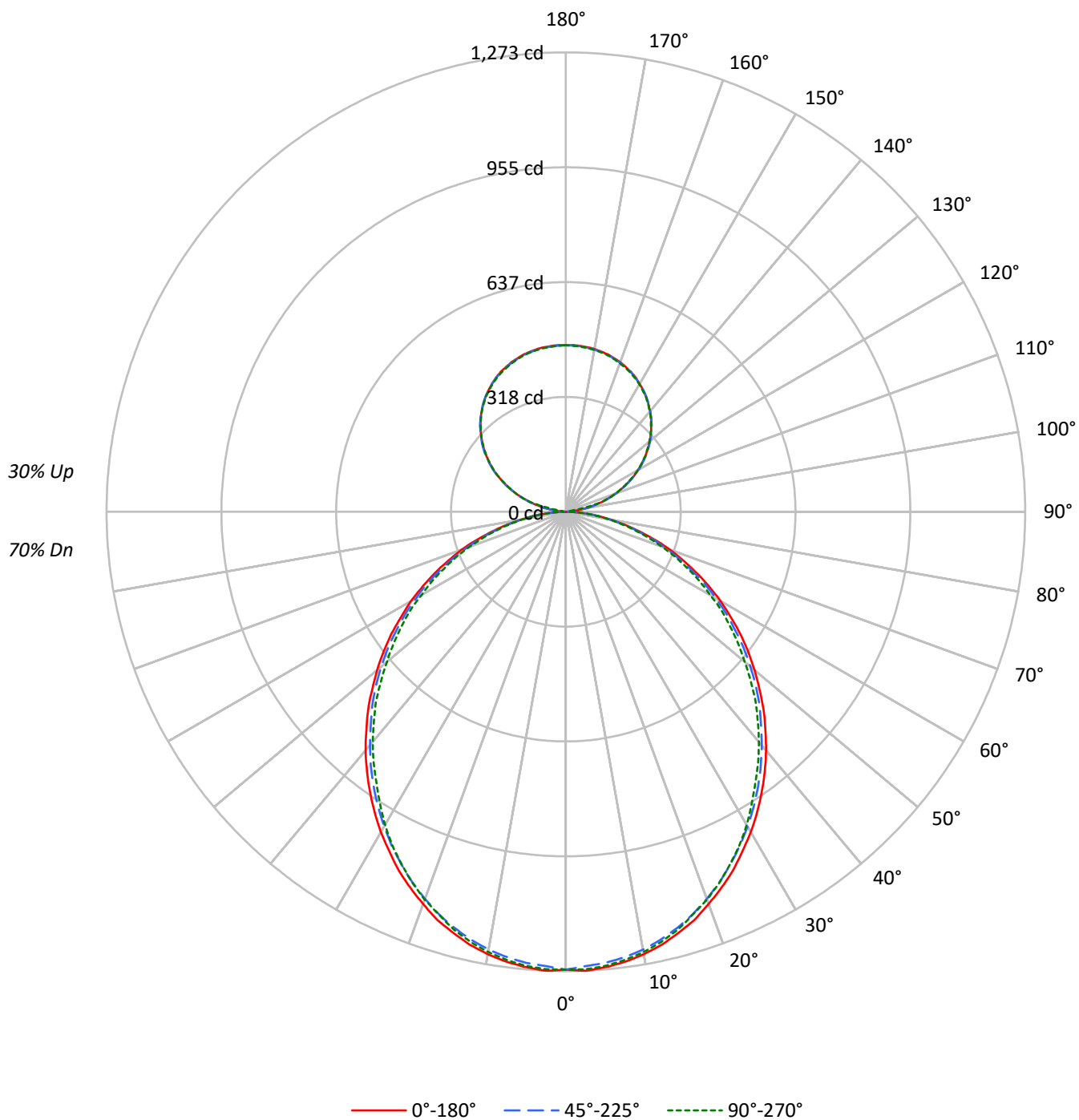
Lumens per Lamp: N/A
Luminaire Lumens: 4721.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74
1	102	98	94	90	96	93	89	86	83	80	78	74	72	70	66	64	63
2	93	85	79	74	88	81	75	70	73	68	64	65	61	58	58	55	53
3	85	75	67	61	80	71	64	59	64	59	54	57	53	49	51	48	45
4	78	66	58	52	73	63	56	50	57	51	46	51	46	42	46	42	39
5	71	59	51	45	67	56	49	43	51	45	40	46	41	37	41	37	34
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	37	33	30
7	61	48	40	34	58	46	38	33	42	35	31	38	33	29	34	30	26
8	57	44	36	30	54	42	35	29	38	32	27	35	29	26	31	27	24
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21
10	50	37	30	25	47	35	29	24	32	26	22	30	25	21	27	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	2.5
10°-20°	338.2	7.2
20°-30°	499.4	10.6
30°-40°	582.6	12.3
40°-50°	585.2	12.4
50°-60°	513.6	10.9
60°-70°	382.6	8.1
70°-80°	218.5	4.6
80°-90°	63.8	1.4
90°-100°	15.7	0.3
100°-110°	104.1	2.2
110°-120°	187.5	4.0
120°-130°	240.7	5.1
130°-140°	258.9	5.5
140°-150°	243.0	5.1
150°-160°	196.5	4.2
160°-170°	127.1	2.7
170°-180°	43.8	0.9
0°-30°	957.4	20.3
0°-40°	1540.0	32.6
0°-60°	2638.8	55.9
0°-90°	3303.7	70.0
90°-120°	307.3	6.5
90°-150°	1049.8	22.2
90°-180°	1417.0	30.0
0°-180°	4721.0	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	5
95°	20	18	6	7	7	24
105°	101	102	102	102	102	107
115°	189	190	191	190	187	187
125°	268	271	271	270	268	240
135°	335	337	336	336	334	258
145°	388	389	389	389	387	243
155°	428	426	426	427	424	197
165°	451	449	449	452	449	127
175°	461	459	460	462	459	44
180°	461	461	461	461	461	

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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	3.1	5.5	7.2	8.2
92.5°	6.5	3.4	5.5	7.2	7.5
95°	19.5	18.5	5.5	7.2	7.2
97.5°	36.6	38.6	6.2	6.8	7.2
100°	57.1	58.1	59.5	8.6	7.2
102.5°	78.0	79.4	80.0	80.7	52.0
105°	100.6	101.9	101.9	101.9	101.6
107.5°	123.8	123.8	124.5	124.8	123.5
110°	146.4	146.4	147.1	146.0	146.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	167.6	168.6	169.0	167.6	166.9
115°	188.8	190.5	190.9	189.5	187.4
117.5°	211.0	211.0	212.4	210.3	209.7
120°	231.6	231.2	232.2	231.6	229.8
122.5°	249.7	251.4	251.7	251.0	249.0
125°	268.5	270.9	270.9	269.5	268.5
127.5°	286.6	288.3	288.0	287.3	284.6
130°	303.0	304.7	305.1	304.1	302.4
132.5°	319.5	321.5	320.5	320.5	318.8
135°	334.8	336.9	336.2	335.5	333.5
137.5°	349.2	351.3	350.6	350.6	348.9
140°	363.2	363.9	363.6	364.3	362.2
142.5°	375.9	376.2	376.9	376.9	374.9
145°	388.2	388.9	388.9	389.2	387.2
147.5°	399.1	399.1	399.5	399.8	397.4
150°	409.4	408.7	409.4	410.1	407.4
152.5°	419.3	417.6	418.3	419.0	416.6
155°	427.5	425.5	426.2	427.2	424.5
157.5°	434.0	433.0	433.0	434.0	431.3
160°	440.9	438.8	439.2	440.5	437.8
162.5°	446.3	444.3	444.6	446.7	443.6
165°	451.1	449.1	449.4	451.5	448.7
167.5°	454.9	452.8	453.2	455.6	452.5
170°	458.0	455.6	455.9	458.7	455.6
172.5°	460.0	457.6	458.3	460.7	457.6
175°	461.4	459.3	459.7	462.4	459.3
177.5°	462.4	460.4	460.7	463.1	460.4
180°	461.4	461.4	461.4	461.4	461.4

(END OF REPORT)