

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: P1028323

Luminaire Tested: S125DIP-B850D375UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028323
REPORT IS A COMBINATION OF REPORTS P1002595 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-D4
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

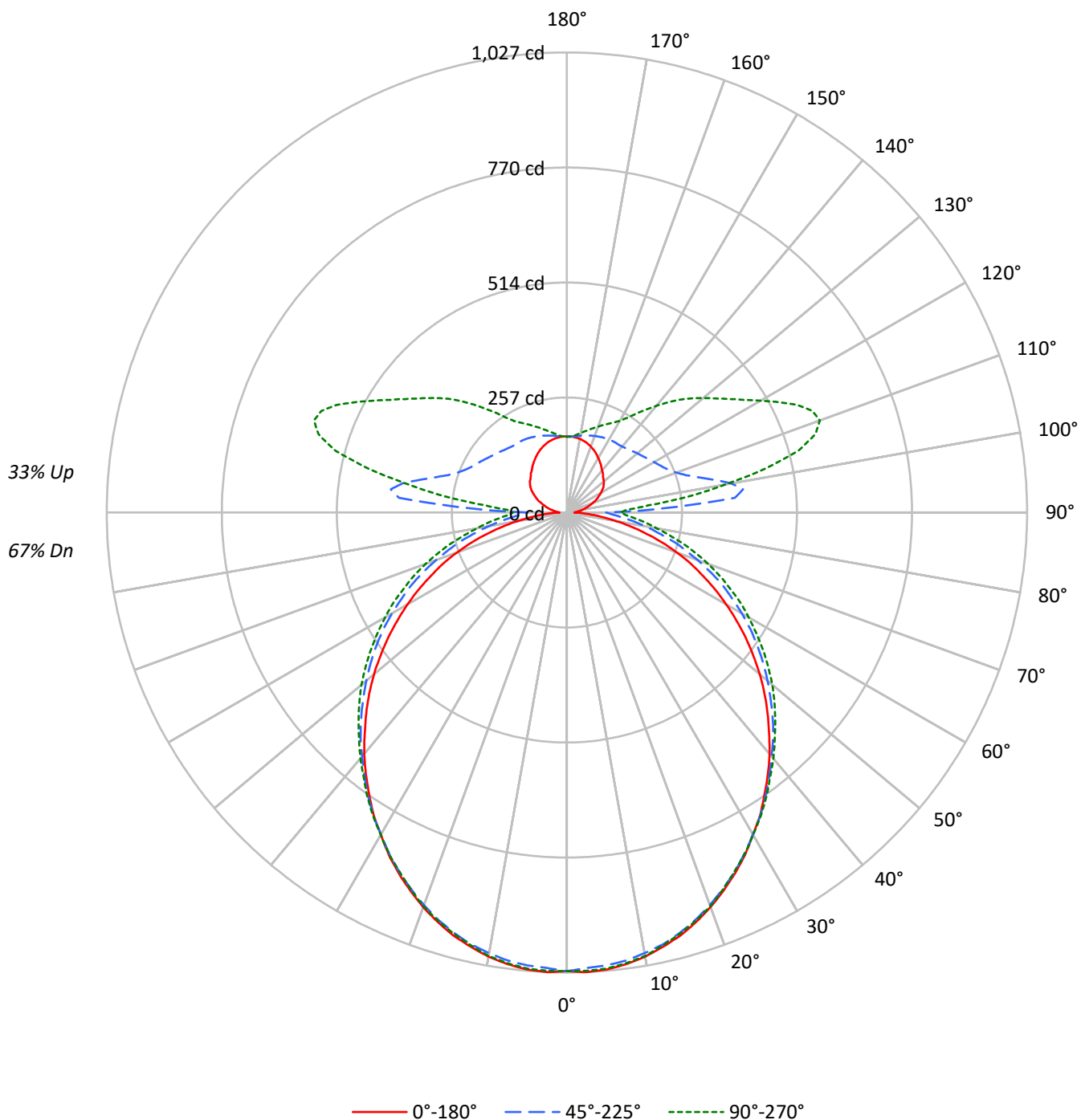
Lumens per Lamp: N/A
Luminaire Lumens: 4448.6 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	62	62	62
1	101	96	91	87	95	90	86	83	80	77	74	71	68	66	62	60	59	54	51	49
2	91	83	76	71	86	78	72	67	70	65	61	61	58	55	54	51	49	47	44	41
3	83	73	65	58	78	69	62	56	61	55	51	54	50	46	47	44	41	37	34	32
4	76	64	56	49	71	61	53	47	54	48	43	48	43	39	42	38	35	32	29	27
5	70	57	49	42	65	54	46	40	48	42	37	43	38	34	38	34	30	27	24	21
6	64	51	43	37	60	49	41	35	44	37	32	39	34	29	34	30	27	24	21	19
7	59	46	38	32	56	44	36	31	40	33	28	35	30	26	31	27	24	21	19	17
8	55	42	34	28	52	40	33	27	36	30	25	32	27	23	29	24	21	19	17	15
9	51	39	31	25	48	37	29	24	33	27	23	30	25	21	27	22	19	17	15	13
10	48	35	28	23	45	34	27	22	31	25	20	28	22	19	25	20	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6560	6560	6560
5°	6571	6423	6438
10°	6522	6292	6274
15°	6443	6139	6072
20°	6335	5955	5870
25°	6208	5760	5627
30°	6055	5546	5406
35°	5911	5349	5202
40°	5765	5142	4997
45°	5599	4962	4812
50°	5442	4767	4645
55°	5251	4580	4452
60°	5043	4368	4253
65°	4825	4145	4029
70°	4575	3845	3797
75°	4182	3549	3513
80°	3665	3190	3199
85°	3156	2904	3034

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5599 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	2.2
10°-20°	275.1	6.2
20°-30°	409.0	9.2
30°-40°	484.4	10.9
40°-50°	500.8	11.3
50°-60°	461.3	10.4
60°-70°	372.9	8.4
70°-80°	249.5	5.6
80°-90°	129.7	2.9
90°-100°	200.3	4.5
100°-110°	318.7	7.2
110°-120°	283.5	6.4
120°-130°	220.7	5.0
130°-140°	169.9	3.8
140°-150°	123.3	2.8
150°-160°	85.6	1.9
160°-170°	50.4	1.1
170°-180°	16.4	0.4
0°-30°	781.0	17.6
0°-40°	1265.4	28.4
0°-60°	2227.5	50.1
0°-90°	2979.7	67.0
90°-120°	802.6	18.0
90°-150°	1316.5	29.6
90°-180°	1469.0	33.0
0°-180°	4448.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1024	1022	1015	1023	1022	97
15°	978	979	972	978	974	275
25°	888	891	885	889	884	409
35°	769	776	773	776	776	481
45°	633	644	650	656	658	489
55°	487	503	519	530	534	435
65°	335	358	382	398	402	333
75°	185	211	243	263	268	196
85°	55	88	124	146	154	58
90°	16	51	88	113	120	12
95°	24	72	376	233	183	22
105°	48	79	303	563	535	50
115°	75	96	238	486	568	74
125°	100	115	214	380	442	88
135°	114	136	197	307	356	89
145°	132	150	190	242	269	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1023.9	1023.9	1023.9	1023.9	1023.9
2.5°	1027.0	1024.9	1017.9	1024.9	1023.9
5°	1023.9	1021.9	1014.9	1022.9	1021.9
7.5°	1016.9	1015.9	1008.9	1015.9	1014.9
10°	1006.9	1006.9	998.8	1005.9	1004.9
12.5°	992.8	993.8	987.8	992.8	989.8
15°	977.8	978.8	971.7	977.8	973.8
17.5°	958.7	960.7	953.7	958.7	955.7
20°	937.6	939.6	932.6	935.6	935.6
22.5°	913.5	917.5	909.5	913.5	910.5
25°	888.4	891.4	885.4	889.4	884.4
27.5°	861.3	865.3	858.3	861.3	859.3
30°	830.2	836.2	830.2	832.2	831.2
32.5°	802.1	807.1	803.1	805.1	804.1
35°	769.0	776.0	773.0	776.0	776.0
37.5°	736.8	742.9	741.9	745.9	744.9
40°	703.7	711.7	710.7	714.8	716.8
42.5°	667.6	678.6	681.6	686.6	686.6
45°	633.4	644.5	649.5	656.5	657.5
47.5°	598.3	608.3	616.4	626.4	628.4
50°	562.2	573.2	584.3	595.3	598.3
52.5°	524.0	538.1	552.1	564.2	566.2
55°	486.9	502.9	519.0	530.0	534.1
57.5°	448.7	467.8	485.9	497.9	500.9
60°	410.6	430.7	450.7	465.8	468.8
62.5°	373.4	393.5	415.6	432.7	436.7
65°	335.3	358.4	382.5	397.5	401.5
67.5°	300.2	322.2	346.3	364.4	369.4
70°	261.0	284.1	310.2	329.3	335.3
72.5°	222.9	247.0	276.1	297.1	301.2
75°	184.7	210.8	242.9	263.0	268.0
77.5°	147.6	177.7	207.8	229.9	233.9
80°	113.4	143.6	177.7	199.8	203.8
82.5°	82.3	114.4	149.6	170.7	178.7
85°	55.2	88.3	123.5	145.6	153.6
87.5°	35.1	67.3	101.4	124.5	131.5
90°	16.4	51.2	87.8	112.6	120.3
92.5°	19.2	71.2	214.7	136.8	132.7
95°	24.4	72.5	376.1	232.8	182.7
97.5°	29.4	72.2	396.4	338.4	273.4
100°	34.9	73.4	372.8	436.0	358.0
102.5°	41.1	76.4	336.4	517.8	454.1
105°	47.6	79.1	303.0	563.2	535.2
107.5°	53.8	83.1	277.8	573.4	581.4
110°	60.7	87.4	259.8	554.9	600.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	68.5	91.8	247.6	521.6	592.9
115°	75.0	96.4	238.1	486.0	567.7
117.5°	80.9	100.9	230.9	452.3	533.3
120°	87.7	106.2	224.9	424.2	498.9
122.5°	93.9	110.4	219.2	399.8	467.9
125°	99.7	115.2	213.8	380.3	441.7
127.5°	103.5	120.6	209.1	361.9	418.2
130°	107.9	126.8	205.5	344.4	397.7
132.5°	110.3	132.2	201.4	325.8	377.4
135°	114.1	135.8	197.4	307.0	356.3
137.5°	118.9	140.1	194.7	288.5	333.5
140°	122.0	143.7	192.0	271.2	310.7
142.5°	126.8	146.1	190.4	255.6	289.3
145°	131.6	149.6	190.0	241.7	269.4
147.5°	135.7	152.6	189.4	230.2	250.4
150°	140.1	155.3	188.3	221.2	236.2
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)