

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: P1027882

Luminaire Tested: S125DIP-B375D375UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027882
REPORT IS A COMBINATION OF REPORTS P1001998 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D375UB50-4F0-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

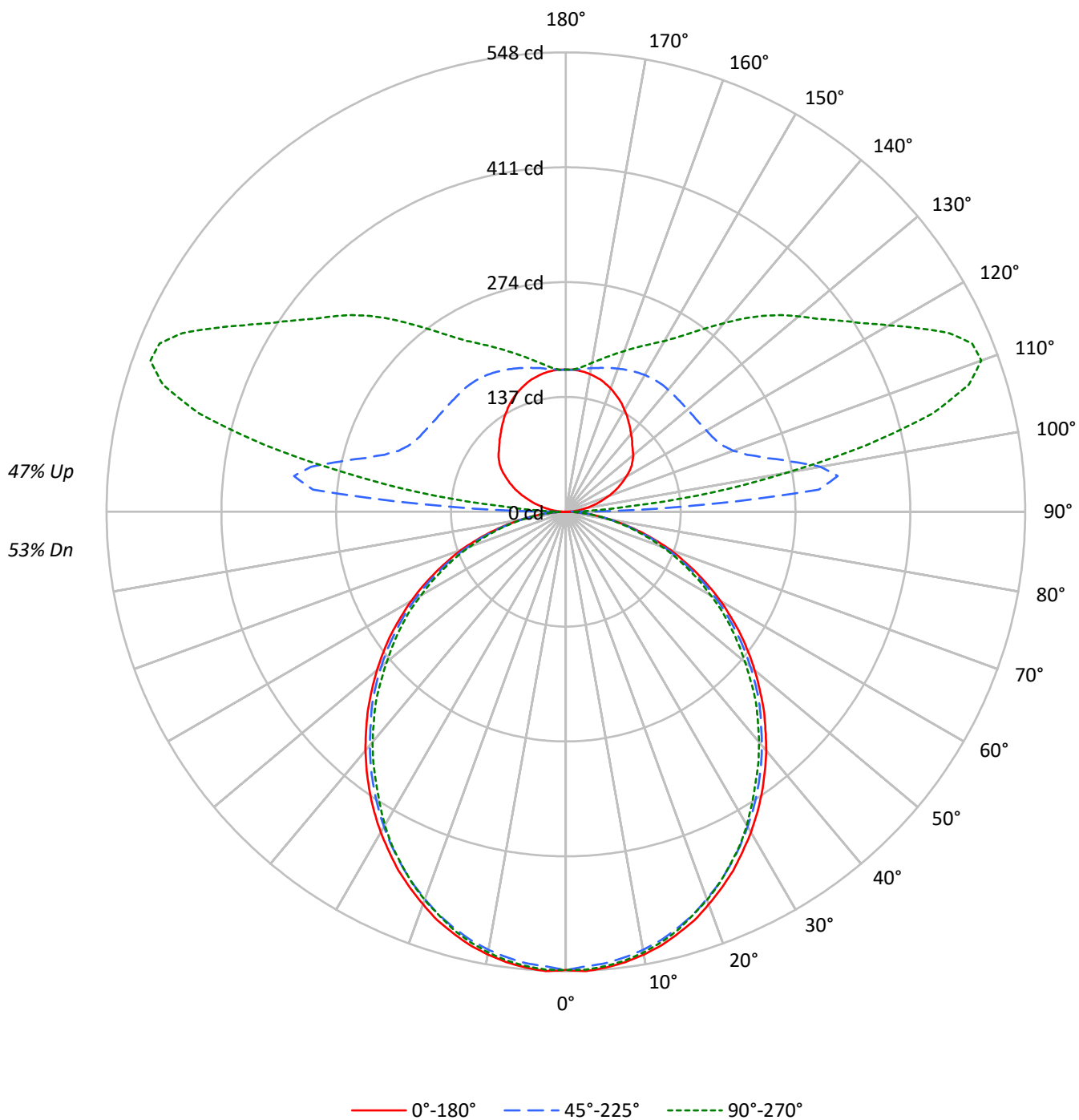
Lumens per Lamp: N/A
Luminaire Lumens: 2699.6 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59
1	98	94	90	86	91	87	84	81	74	72	70	63	61	59	52	51	49
2	90	82	76	71	83	76	71	66	65	61	58	55	52	49	45	43	42
3	82	72	65	59	75	67	60	55	57	52	48	49	45	42	40	38	35
4	75	64	56	50	69	59	52	47	51	46	41	43	39	36	36	33	30
5	69	57	49	43	63	53	46	40	46	40	36	39	34	31	32	29	27
6	63	51	43	37	58	48	40	35	41	35	31	35	31	27	29	26	23
7	58	46	38	32	54	43	36	31	37	32	27	32	27	24	27	23	21
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	25	21	19
9	50	38	31	26	47	36	29	24	31	26	22	27	22	19	23	19	17
10	47	35	28	23	44	33	26	22	29	23	20	25	20	17	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3503	3503	3503
5°	3503	3422	3428
10°	3474	3343	3333
15°	3428	3249	3221
20°	3367	3141	3091
25°	3300	3022	2953
30°	3221	2898	2808
35°	3136	2769	2645
40°	3047	2632	2500
45°	2952	2498	2346
50°	2847	2346	2166
55°	2743	2180	2001
60°	2619	2004	1809
65°	2471	1800	1611
70°	2321	1566	1382
75°	2067	1289	1117
80°	1761	962	821
85°	1361	569	452

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2952 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	1.9
10°-20°	145.7	5.4
20°-30°	215.1	8.0
30°-40°	251.0	9.3
40°-50°	252.1	9.3
50°-60°	221.3	8.2
60°-70°	164.8	6.1
70°-80°	94.1	3.5
80°-90°	27.9	1.0
90°-100°	127.6	4.7
100°-110°	265.2	9.8
110°-120°	247.7	9.2
120°-130°	200.4	7.4
130°-140°	161.0	6.0
140°-150°	121.6	4.5
150°-160°	85.6	3.2
160°-170°	50.4	1.9
170°-180°	16.4	0.6
0°-30°	412.5	15.3
0°-40°	663.5	24.6
0°-60°	1136.8	42.1
0°-90°	1423.7	52.7
90°-120°	640.5	23.7
90°-150°	1123.5	41.6
90°-180°	1276.0	47.3
0°-180°	2699.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	546	545	541	545	544	52
15°	520	519	514	516	516	147
25°	472	470	464	465	464	217
35°	408	406	400	398	394	255
45°	334	332	327	322	320	257
55°	254	253	247	243	240	227
65°	172	171	166	162	160	170
75°	91	90	88	87	85	97
85°	24	24	24	24	23	26
90°	0	3	6	7	8	2
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	546.7	546.7	546.7	546.7	546.7
2.5°	548.5	547.2	542.8	547.2	546.7
5°	545.9	545.0	540.7	544.6	544.1
7.5°	542.0	541.1	536.3	540.2	539.8
10°	536.3	535.5	530.7	534.2	533.8
12.5°	529.4	527.7	523.4	526.0	526.0
15°	520.3	519.0	514.3	516.5	516.5
17.5°	510.8	508.7	503.9	506.5	504.3
20°	498.3	497.4	491.8	494.8	492.7
22.5°	485.7	484.0	478.8	480.6	479.3
25°	472.3	470.2	464.5	465.4	464.1
27.5°	456.8	455.5	449.8	450.3	449.0
30°	441.6	440.3	433.8	433.0	431.7
32.5°	425.2	423.0	417.4	415.7	413.1
35°	407.9	406.2	400.1	397.9	394.5
37.5°	390.1	388.0	382.4	379.3	377.2
40°	372.0	369.8	363.8	359.9	358.6
42.5°	352.5	350.8	344.7	341.3	339.1
45°	333.9	332.2	327.0	321.8	320.5
47.5°	313.6	314.0	307.5	302.3	299.3
50°	294.1	292.8	287.6	282.0	279.0
52.5°	274.2	273.4	267.7	263.0	259.5
55°	254.3	253.0	247.0	243.1	240.1
57.5°	233.1	232.7	227.5	222.3	221.0
60°	213.2	211.5	206.8	202.4	199.4
62.5°	192.5	191.2	187.3	182.5	180.4
65°	171.7	170.9	166.1	162.2	160.5
67.5°	151.4	149.7	146.2	142.7	141.9
70°	132.4	130.2	126.3	123.7	122.0
72.5°	111.6	110.3	108.1	105.1	103.4
75°	91.3	90.4	88.2	86.9	85.2
77.5°	72.2	71.8	70.5	69.6	68.3
80°	54.5	54.5	53.6	53.2	52.3
82.5°	38.9	38.1	38.1	37.2	37.2
85°	23.8	24.2	24.2	23.8	22.9
87.5°	11.7	11.7	11.2	11.2	10.4
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



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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)