

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: P1027845

Luminaire Tested: S125DIP-B375D375UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027845
REPORT IS A COMBINATION OF REPORTS P1001946 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D375UB27-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

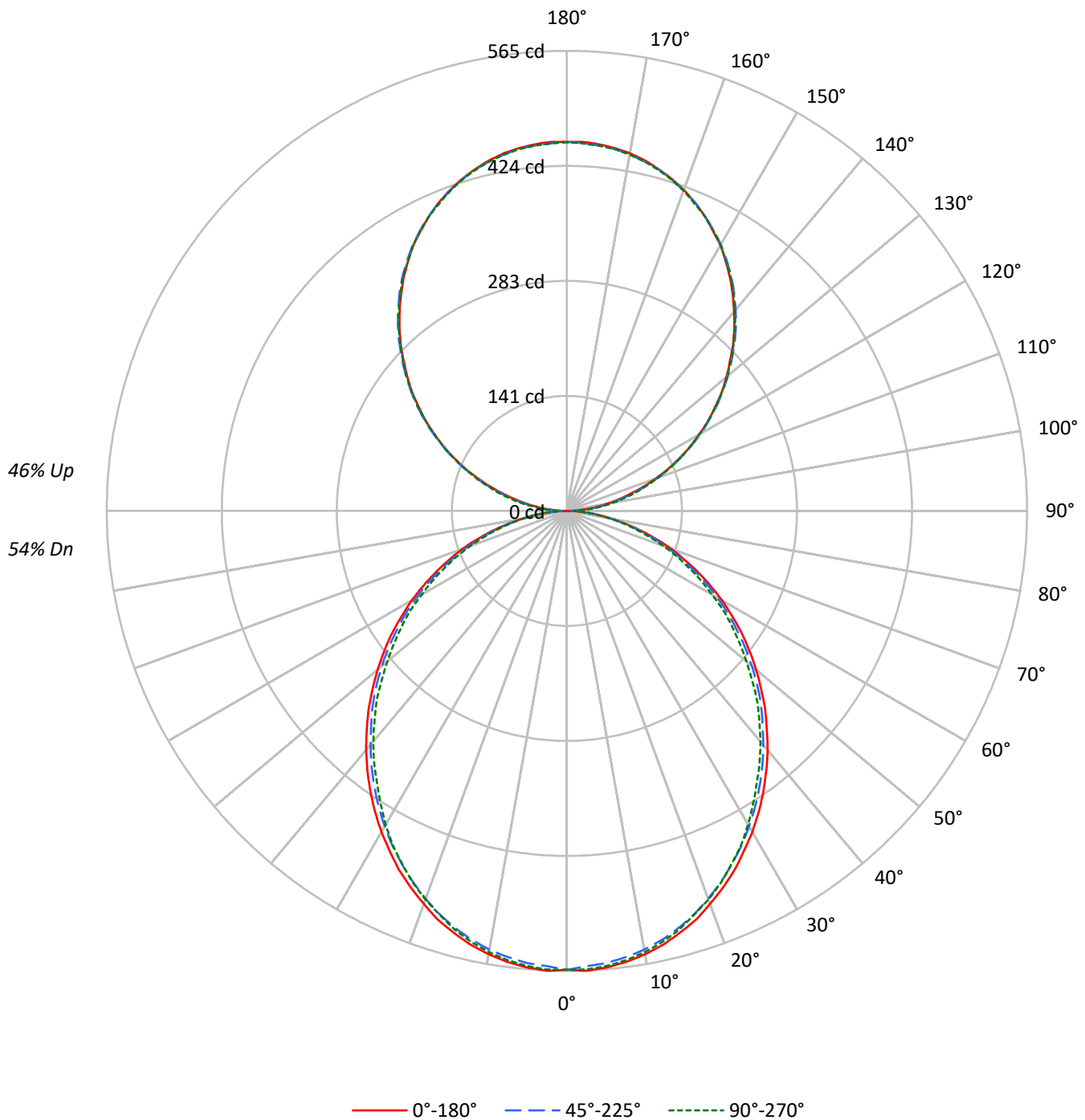
Lumens per Lamp: N/A
Luminaire Lumens: 2732.0 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	72	72	72	60	60	60
1	99	94	90	87	91	87	84	81	75	72	70	63	61	60	53	51	50
2	90	82	76	71	83	76	71	66	66	61	58	55	52	50	46	44	42
3	82	72	65	59	76	67	61	55	58	53	49	49	45	42	41	38	36
4	75	64	56	50	69	60	52	47	51	46	41	44	39	36	37	33	31
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	30	27
6	63	51	43	37	58	48	40	35	41	36	31	35	31	27	30	26	24
7	59	46	38	32	54	43	36	31	38	32	28	32	28	24	27	24	21
8	54	42	34	29	50	39	32	27	34	29	24	30	25	22	25	22	19
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	21	18	15

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	1.9
10°-20°	150.2	5.5
20°-30°	221.8	8.1
30°-40°	258.8	9.5
40°-50°	259.9	9.5
50°-60°	228.1	8.4
60°-70°	169.9	6.2
70°-80°	97.1	3.6
80°-90°	28.7	1.1
90°-100°	30.1	1.1
100°-110°	89.5	3.3
110°-120°	151.8	5.6
120°-130°	199.8	7.3
130°-140°	223.9	8.2
140°-150°	219.5	8.0
150°-160°	184.3	6.7
160°-170°	122.5	4.5
170°-180°	42.9	1.6
0°-30°	425.2	15.6
0°-40°	684.0	25.0
0°-60°	1172.0	42.9
0°-90°	1467.7	53.7
90°-120°	271.4	9.9
90°-150°	914.6	33.5
90°-180°	1264.0	46.3
0°-180°	2732.0	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°	0	3	6	7	8	3
95°	23	24	27	30	30	24
105°	80	82	84	86	87	86
115°	152	153	154	154	153	150
125°	222	224	224	224	223	199
135°	288	290	291	291	289	222
145°	349	351	352	352	351	218
155°	400	400	400	402	400	184
165°	435	434	434	436	434	123
175°	452	450	450	453	450	43
180°	453	453	453	453	453	

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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°	0.4	3.2	5.6	7.4	8.5
92.5°	10.6	12.3	15.5	18.0	18.7
95°	22.9	23.6	27.1	29.6	30.3
97.5°	35.3	35.6	40.5	42.7	43.0
100°	49.4	49.4	53.9	57.1	57.8
102.5°	64.5	66.3	68.0	71.6	72.6
105°	80.4	82.1	84.3	86.4	87.4
107.5°	97.7	99.4	101.2	102.2	102.2
110°	115.6	117.4	118.5	119.5	119.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	134.0	134.7	136.1	136.4	135.7
115°	151.9	153.4	154.1	153.7	153.4
117.5°	170.3	170.6	171.3	171.7	170.3
120°	187.2	189.0	189.3	189.3	187.9
122.5°	205.5	205.9	206.9	206.6	205.5
125°	221.7	223.9	224.2	223.5	223.2
127.5°	239.7	240.8	241.1	240.8	240.1
130°	255.6	257.3	258.1	257.7	257.0
132.5°	271.4	274.6	274.3	273.9	272.9
135°	288.4	290.5	290.8	290.8	289.4
137.5°	304.2	306.3	307.1	307.4	305.6
140°	319.4	321.2	322.2	322.9	321.2
142.5°	334.6	336.0	337.4	337.7	336.0
145°	349.4	350.8	351.8	351.8	350.8
147.5°	363.1	364.2	364.9	365.9	363.1
150°	376.9	376.5	377.9	377.9	377.2
152.5°	388.1	388.8	389.2	390.3	388.8
155°	399.8	399.8	400.1	401.5	399.8
157.5°	410.3	409.6	410.0	411.4	408.9
160°	419.5	418.5	418.8	420.2	418.5
162.5°	427.6	426.9	426.9	428.7	426.6
165°	434.7	434.0	434.3	435.7	433.6
167.5°	441.0	439.6	439.6	441.7	439.6
170°	446.0	444.5	444.5	446.7	444.2
172.5°	449.5	448.1	448.1	450.2	448.1
175°	451.9	450.5	450.5	452.7	450.2
177.5°	453.7	452.3	451.9	454.1	451.6
180°	453.0	453.0	453.0	453.0	453.0

(END OF REPORT)