

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: P1027846

Luminaire Tested: S125DIP-B375D375UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027846
REPORT IS A COMBINATION OF REPORTS P1001947 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D375UB27-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

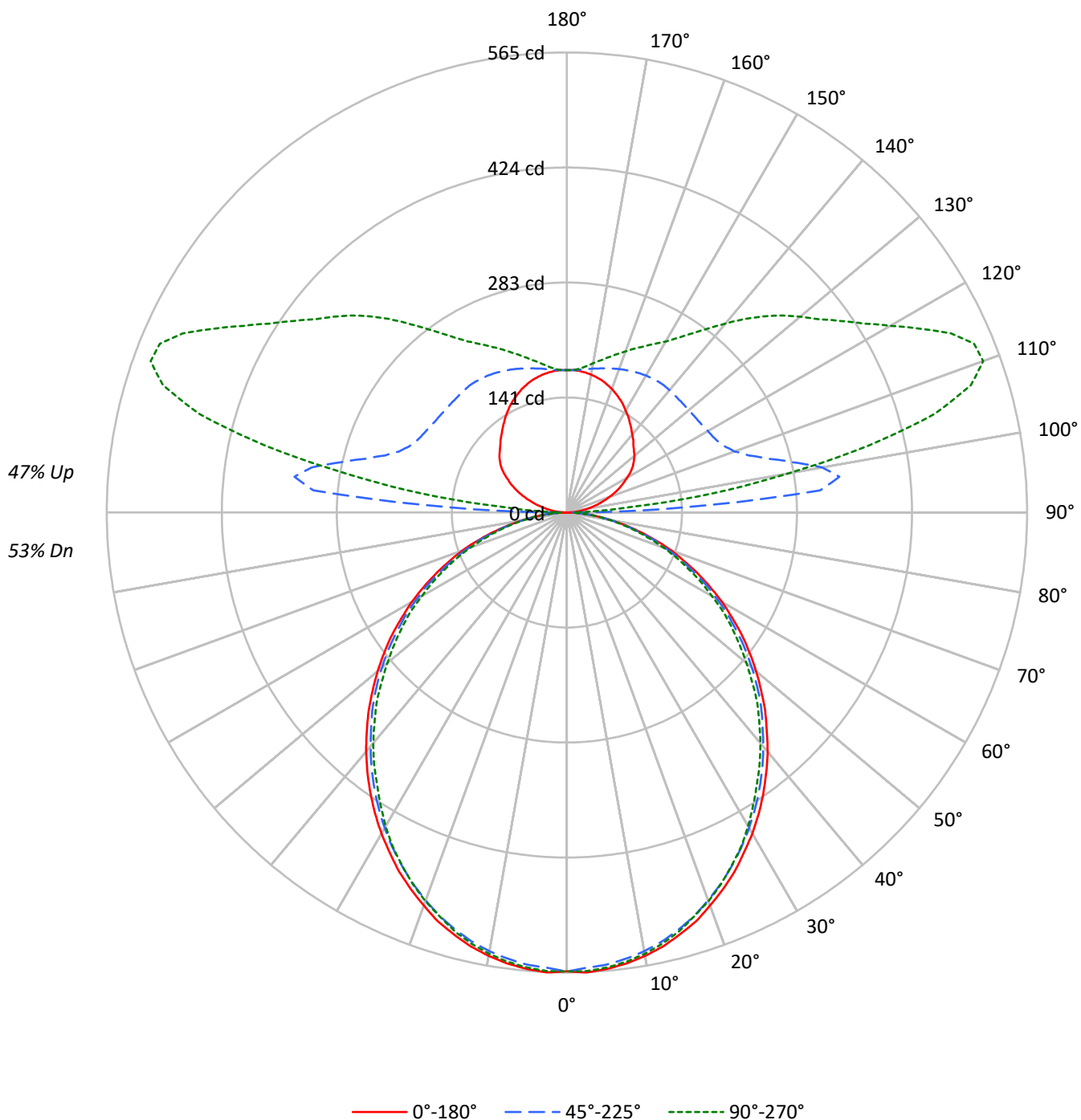
Lumens per Lamp: N/A
Luminaire Lumens: 2783.7 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	26
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°	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	5.4
20°-30°	221.8	8.0
30°-40°	258.8	9.3
40°-50°	259.9	9.3
50°-60°	228.1	8.2
60°-70°	169.9	6.1
70°-80°	97.1	3.5
80°-90°	28.7	1.0
90°-100°	131.7	4.7
100°-110°	273.5	9.8
110°-120°	255.5	9.2
120°-130°	206.7	7.4
130°-140°	166.1	6.0
140°-150°	125.4	4.5
150°-160°	88.3	3.2
160°-170°	52.0	1.9
170°-180°	16.9	0.6
0°-30°	425.2	15.3
0°-40°	684.0	24.6
0°-60°	1172.0	42.1
0°-90°	1467.7	52.7
90°-120°	660.6	23.7
90°-150°	1158.8	41.6
90°-180°	1316.0	47.3
0°-180°	2783.7	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	2
95°	12	34	312	142	83	12
105°	40	56	256	503	467	42
115°	71	86	205	442	520	70
125°	99	116	197	352	410	88
135°	116	139	195	295	340	90
145°	135	154	196	244	269	84
155°	154	165	191	216	225	71
165°	168	172	183	194	197	47
175°	174	174	176	178	177	17
180°	175	175	175	175	175	

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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	8.1
92.5°	5.3	29.0	140.7	37.6	26.1
95°	11.6	34.3	312.3	141.7	82.8
97.5°	18.0	37.2	337.4	256.0	181.5
100°	24.7	42.6	318.3	361.7	275.0
102.5°	32.1	48.8	284.8	451.2	379.3
105°	39.8	55.7	255.6	503.2	467.1
107.5°	47.2	62.9	233.7	517.8	520.0
110°	55.3	70.5	219.3	503.9	543.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.5	78.1	210.8	474.8	541.1
115°	71.2	85.8	205.2	442.2	520.3
117.5°	78.3	93.8	202.0	412.6	488.9
120°	85.3	101.4	199.9	387.8	458.6
122.5°	92.7	108.8	198.1	367.8	431.8
125°	98.7	115.6	196.7	351.8	410.0
127.5°	103.6	122.3	196.0	338.1	389.9
130°	108.2	128.7	195.3	324.2	374.0
132.5°	111.7	134.3	195.3	309.2	358.2
135°	115.6	139.0	195.3	294.8	340.5
137.5°	120.6	143.4	195.7	279.9	322.2
140°	124.8	147.2	196.0	266.2	302.8
142.5°	129.7	150.7	196.4	254.4	284.8
145°	134.7	154.2	196.0	244.2	268.6
147.5°	140.0	157.4	195.3	235.3	254.2
150°	144.5	160.2	194.2	228.1	242.5
152.5°	149.5	163.0	192.8	221.9	233.4
155°	153.7	165.4	191.1	216.0	225.3
157.5°	157.6	167.6	189.3	210.3	217.9
160°	161.5	169.4	187.5	204.6	210.5
162.5°	164.6	171.2	185.4	199.6	203.8
165°	167.8	172.4	183.3	194.4	197.4
167.5°	169.9	173.1	181.2	189.7	191.4
170°	172.0	174.0	179.4	185.0	186.1
172.5°	173.4	174.3	177.3	181.4	181.2
175°	174.5	174.5	175.9	178.0	177.3
177.5°	175.2	174.5	174.9	175.9	174.9
180°	174.9	174.9	174.9	174.9	174.9

(END OF REPORT)