

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: P1027854

Luminaire Tested: S125DIP-B375D375UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027854
REPORT IS A COMBINATION OF REPORTS P1001970 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D375UB30-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

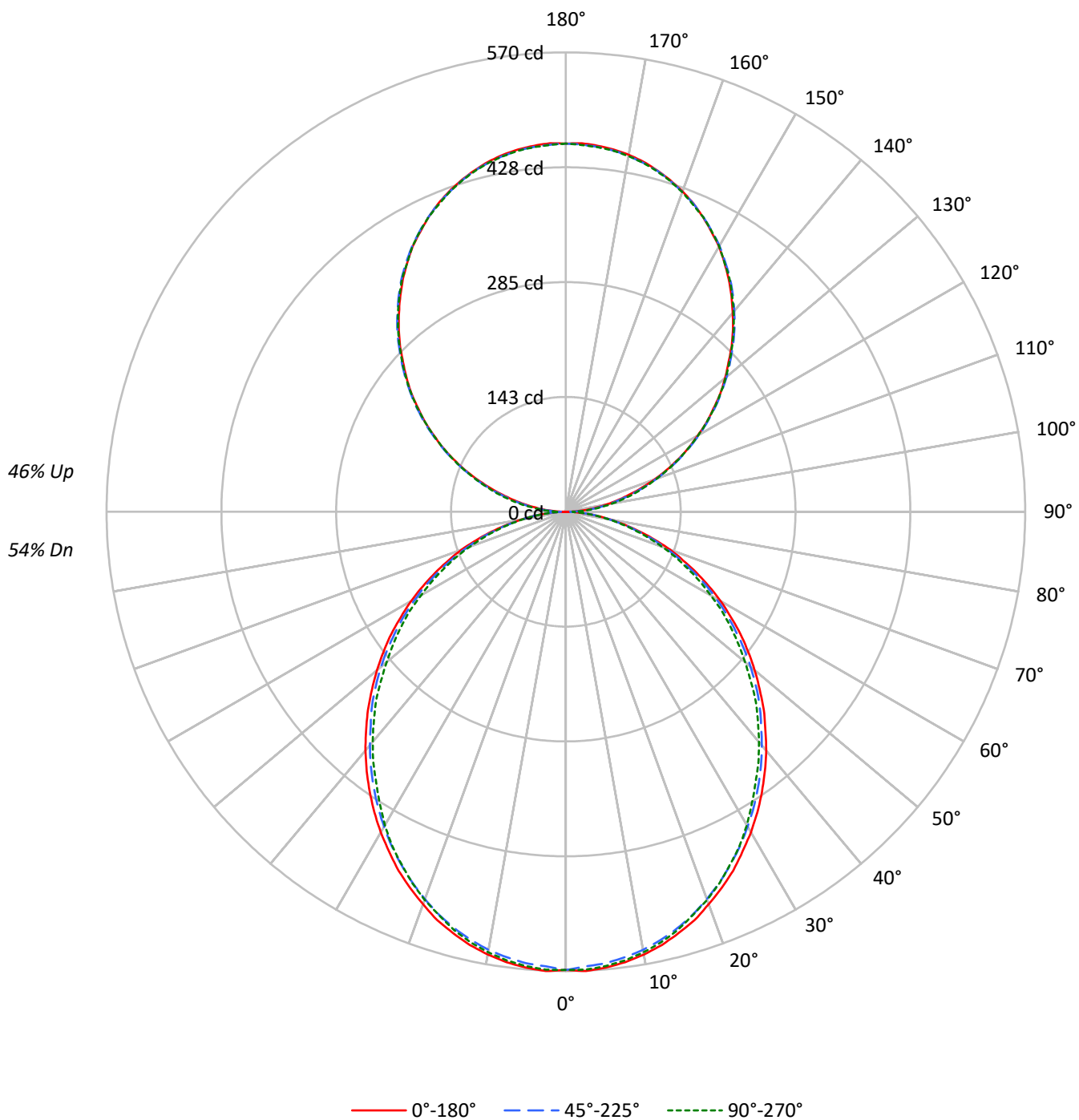
Lumens per Lamp: N/A
Luminaire Lumens: 2756.0 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	53	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°	3643	3643	3643
5°	3643	3559	3565
10°	3613	3477	3466
15°	3566	3380	3349
20°	3501	3266	3215
25°	3433	3143	3071
30°	3350	3014	2920
35°	3261	2879	2751
40°	3169	2737	2600
45°	3070	2598	2439
50°	2961	2441	2253
55°	2853	2267	2081
60°	2724	2084	1882
65°	2570	1872	1675
70°	2414	1629	1437
75°	2149	1341	1161
80°	1832	1002	854
85°	1412	593	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3070 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	1.9
10°-20°	151.6	5.5
20°-30°	223.8	8.1
30°-40°	261.1	9.5
40°-50°	262.2	9.5
50°-60°	230.2	8.4
60°-70°	171.4	6.2
70°-80°	97.9	3.6
80°-90°	29.0	1.1
90°-100°	30.4	1.1
100°-110°	90.3	3.3
110°-120°	153.1	5.6
120°-130°	201.5	7.3
130°-140°	225.8	8.2
140°-150°	221.4	8.0
150°-160°	185.9	6.7
160°-170°	123.6	4.5
170°-180°	43.3	1.6
0°-30°	429.0	15.6
0°-40°	690.0	25.0
0°-60°	1182.4	42.9
0°-90°	1480.7	53.7
90°-120°	273.8	9.9
90°-150°	922.5	33.5
90°-180°	1275.0	46.3
0°-180°	2756.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	569	569	569	569	569	
5°	568	567	562	566	566	54
15°	541	540	535	537	537	153
25°	491	489	483	484	483	226
35°	424	422	416	414	410	265
45°	347	346	340	335	333	268
55°	264	263	257	253	250	236
65°	179	178	173	169	167	177
75°	95	94	92	90	89	101
85°	25	25	25	25	24	27
90°	0	3	6	8	8	3
95°	23	24	27	30	31	24
105°	81	83	85	87	88	86
115°	153	155	155	155	155	152
125°	224	226	226	225	225	200
135°	291	293	293	293	292	224
145°	352	354	355	355	354	220
155°	403	403	404	405	403	186
165°	438	438	438	440	437	124
175°	456	454	454	457	454	43
180°	457	457	457	457	457	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	568.6	568.6	568.6	568.6	568.6
2.5°	570.4	569.1	564.6	569.1	568.6
5°	567.7	566.8	562.3	566.4	565.9
7.5°	563.7	562.8	557.8	561.9	561.4
10°	557.8	556.9	552.0	555.6	555.1
12.5°	550.6	548.8	544.3	547.0	547.0
15°	541.2	539.8	534.9	537.1	537.1
17.5°	531.3	529.0	524.1	526.8	524.5
20°	518.2	517.3	511.5	514.6	512.4
22.5°	505.2	503.4	498.0	499.8	498.4
25°	491.3	489.0	483.2	484.1	482.7
27.5°	475.1	473.7	467.9	468.3	467.0
30°	459.3	458.0	451.2	450.3	449.0
32.5°	442.2	440.0	434.1	432.3	429.6
35°	424.2	422.4	416.1	413.9	410.3
37.5°	405.8	403.5	397.7	394.5	392.3
40°	386.9	384.6	378.3	374.3	372.9
42.5°	366.6	364.8	358.5	354.9	352.7
45°	347.3	345.5	340.1	334.7	333.3
47.5°	326.2	326.6	319.9	314.5	311.3
50°	305.9	304.6	299.2	293.3	290.2
52.5°	285.2	284.3	278.5	273.5	269.9
55°	264.5	263.2	256.9	252.8	249.7
57.5°	242.5	242.0	236.6	231.2	229.9
60°	221.8	220.0	215.0	210.5	207.4
62.5°	200.2	198.8	194.8	189.8	187.6
65°	178.6	177.7	172.7	168.7	166.9
67.5°	157.5	155.7	152.1	148.5	147.6
70°	137.7	135.4	131.4	128.7	126.9
72.5°	116.1	114.7	112.5	109.3	107.5
75°	94.9	94.0	91.8	90.4	88.6
77.5°	75.1	74.7	73.3	72.4	71.1
80°	56.7	56.7	55.8	55.3	54.4
82.5°	40.5	39.6	39.6	38.7	38.7
85°	24.7	25.2	25.2	24.7	23.8
87.5°	12.1	12.1	11.7	11.7	10.8
90°	0.4	3.2	5.7	7.5	8.5
92.5°	10.7	12.4	15.6	18.1	18.8
95°	23.1	23.8	27.4	29.9	30.6
97.5°	35.6	35.9	40.9	43.0	43.4
100°	49.8	49.8	54.4	57.6	58.3
102.5°	65.1	66.9	68.6	72.2	73.3
105°	81.1	82.9	85.0	87.1	88.2
107.5°	98.5	100.3	102.1	103.1	103.1
110°	116.6	118.4	119.5	120.5	120.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.1	135.8	137.3	137.6	136.9
115°	153.3	154.7	155.4	155.0	154.7
117.5°	171.8	172.1	172.8	173.2	171.8
120°	188.8	190.6	191.0	191.0	189.5
122.5°	207.3	207.7	208.7	208.4	207.3
125°	223.7	225.8	226.2	225.4	225.1
127.5°	241.8	242.9	243.2	242.9	242.2
130°	257.8	259.6	260.3	259.9	259.2
132.5°	273.8	277.0	276.7	276.3	275.2
135°	290.9	293.0	293.4	293.4	291.9
137.5°	306.9	309.0	309.7	310.1	308.3
140°	322.2	323.9	325.0	325.7	323.9
142.5°	337.5	338.9	340.3	340.7	338.9
145°	352.4	353.8	354.9	354.9	353.8
147.5°	366.3	367.3	368.0	369.1	366.3
150°	380.1	379.8	381.2	381.2	380.5
152.5°	391.5	392.2	392.6	393.6	392.2
155°	403.2	403.2	403.6	405.0	403.2
157.5°	413.9	413.2	413.6	415.0	412.5
160°	423.2	422.1	422.4	423.9	422.1
162.5°	431.3	430.6	430.6	432.4	430.3
165°	438.5	437.7	438.1	439.5	437.4
167.5°	444.9	443.4	443.4	445.6	443.4
170°	449.8	448.4	448.4	450.5	448.1
172.5°	453.4	452.0	452.0	454.1	452.0
175°	455.9	454.5	454.5	456.6	454.1
177.5°	457.7	456.2	455.9	458.0	455.5
180°	456.9	456.9	456.9	456.9	456.9

(END OF REPORT)