

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: P1027945

Luminaire Tested: S125DIP-B375D850UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027945
REPORT IS A COMBINATION OF REPORTS P1002091 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D850UB30-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

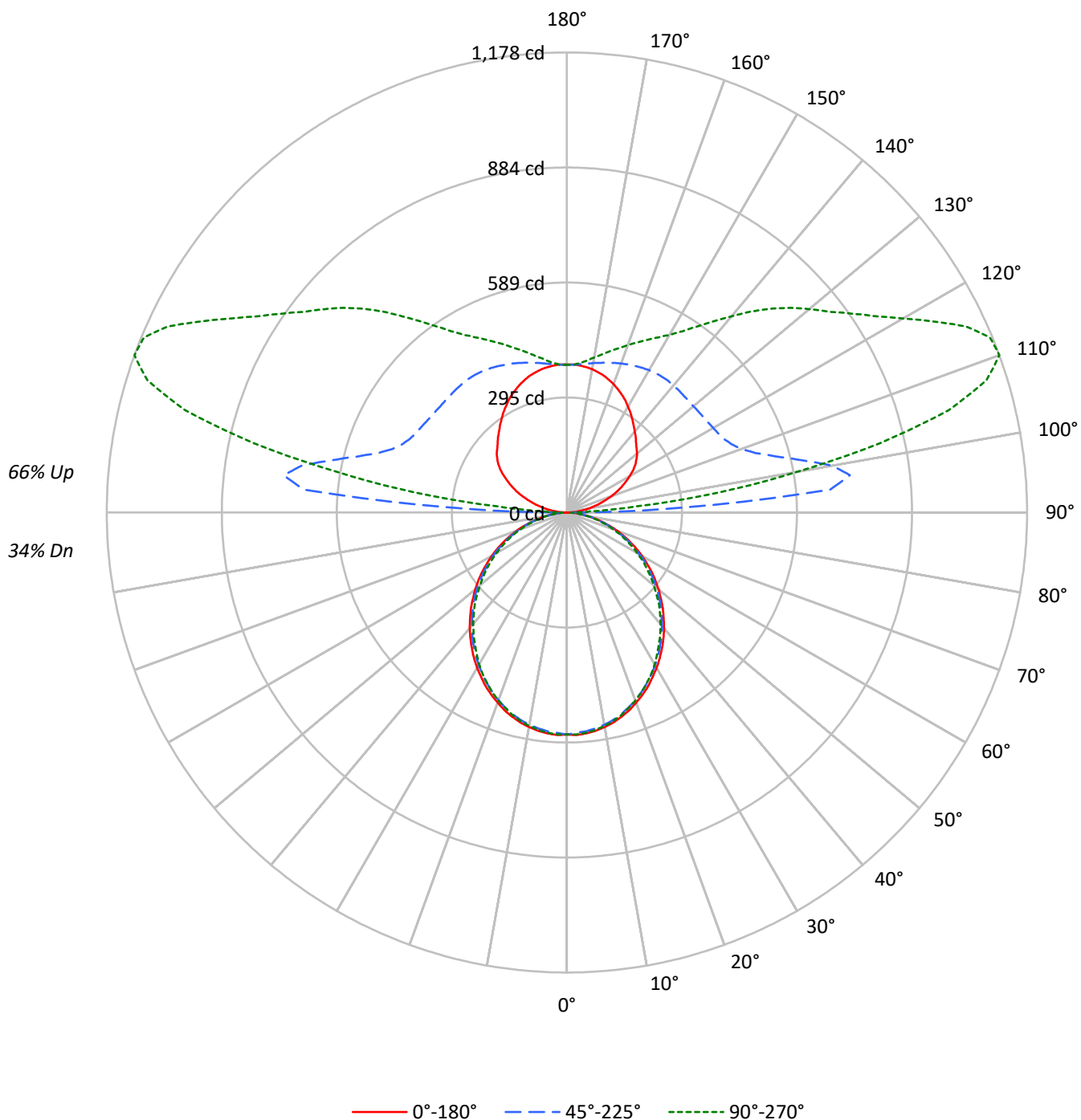
Lumens per Lamp: N/A
Luminaire Lumens: 4331.8 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42
1	94	90	86	83	85	81	78	75	65	63	61	50	49	48	37	36	35
2	86	78	73	67	77	71	66	62	57	53	50	44	42	40	32	31	29
3	78	69	62	56	70	62	56	51	50	46	42	39	36	34	29	27	25
4	71	61	53	47	64	55	49	43	45	40	36	35	31	29	25	23	22
5	65	54	46	40	59	49	42	37	40	35	31	31	28	25	23	21	19
6	60	48	41	35	54	44	37	32	36	31	27	28	24	22	21	18	16
7	56	44	36	30	50	40	33	28	32	27	24	25	22	19	19	16	15
8	52	40	32	27	46	36	29	25	29	24	21	23	20	17	17	15	13
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	14	12
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	12	11

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	1.2
10°-20°	151.6	3.5
20°-30°	223.8	5.2
30°-40°	261.1	6.0
40°-50°	262.2	6.1
50°-60°	230.2	5.3
60°-70°	171.4	4.0
70°-80°	97.9	2.3
80°-90°	29.8	0.7
90°-100°	285.2	6.6
100°-110°	592.4	13.7
110°-120°	553.3	12.8
120°-130°	447.7	10.3
130°-140°	359.7	8.3
140°-150°	271.5	6.3
150°-160°	191.2	4.4
160°-170°	112.7	2.6
170°-180°	36.6	0.8
0°-30°	429.0	9.9
0°-40°	690.0	15.9
0°-60°	1182.4	27.3
0°-90°	1481.5	34.2
90°-120°	1430.9	33.0
90°-150°	2509.8	57.9
90°-180°	2850.0	65.8
0°-180°	4331.8	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°	1	7	12	16	18	3
95°	25	74	676	307	179	26
105°	86	121	554	1090	1012	91
115°	154	186	444	958	1127	152
125°	214	250	426	762	888	190
135°	250	301	423	639	738	194
145°	292	334	424	529	582	183
155°	333	358	414	468	488	153
165°	363	373	397	421	428	102
175°	378	378	381	386	384	36
180°	379	379	379	379	379	

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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°	0.8	6.8	12.2	16.0	17.6
92.5°	11.5	62.6	304.6	81.4	56.5
95°	25.2	74.4	676.5	307.0	179.4
97.5°	38.9	80.6	730.7	554.3	393.2
100°	53.4	92.4	689.5	783.4	595.6
102.5°	69.5	105.8	616.9	977.4	821.6
105°	86.3	120.6	553.6	1089.9	1011.7
107.5°	102.3	136.2	506.2	1121.6	1126.2
110°	119.9	152.7	474.9	1091.4	1178.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	137.4	169.1	456.6	1028.5	1172.0
115°	154.2	186.0	444.4	957.8	1127.0
117.5°	169.5	203.1	437.5	893.7	1059.0
120°	184.8	219.6	432.9	839.9	993.4
122.5°	200.8	235.6	429.1	796.8	935.3
125°	213.8	250.4	426.1	762.0	888.0
127.5°	224.5	265.0	424.5	732.2	844.5
130°	234.4	278.7	423.0	702.1	810.1
132.5°	242.0	290.9	423.0	669.6	775.7
135°	250.4	301.2	423.0	638.7	737.6
137.5°	261.1	310.8	423.8	606.2	697.9
140°	270.3	318.8	424.5	576.4	655.9
142.5°	281.0	326.4	425.3	550.8	616.9
145°	291.7	334.0	424.5	528.8	581.8
147.5°	303.1	340.9	423.0	509.6	550.5
150°	313.0	347.0	420.7	494.0	525.3
152.5°	323.7	353.2	417.7	480.6	505.5
155°	332.9	358.1	413.8	467.7	487.9
157.5°	341.3	363.1	410.0	455.4	471.9
160°	349.7	366.8	406.2	443.2	455.8
162.5°	356.6	370.7	401.6	432.2	441.3
165°	363.4	373.4	397.0	421.1	427.6
167.5°	368.0	374.9	392.5	410.8	414.6
170°	372.6	376.8	388.6	400.8	403.1
172.5°	375.7	377.5	384.1	392.8	392.5
175°	377.9	377.9	381.0	385.6	384.1
177.5°	379.5	377.9	378.7	381.0	378.7
180°	378.7	378.7	378.7	378.7	378.7

(END OF REPORT)