

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: P1027943

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027943
REPORT IS A COMBINATION OF REPORTS P1002089 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-F
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

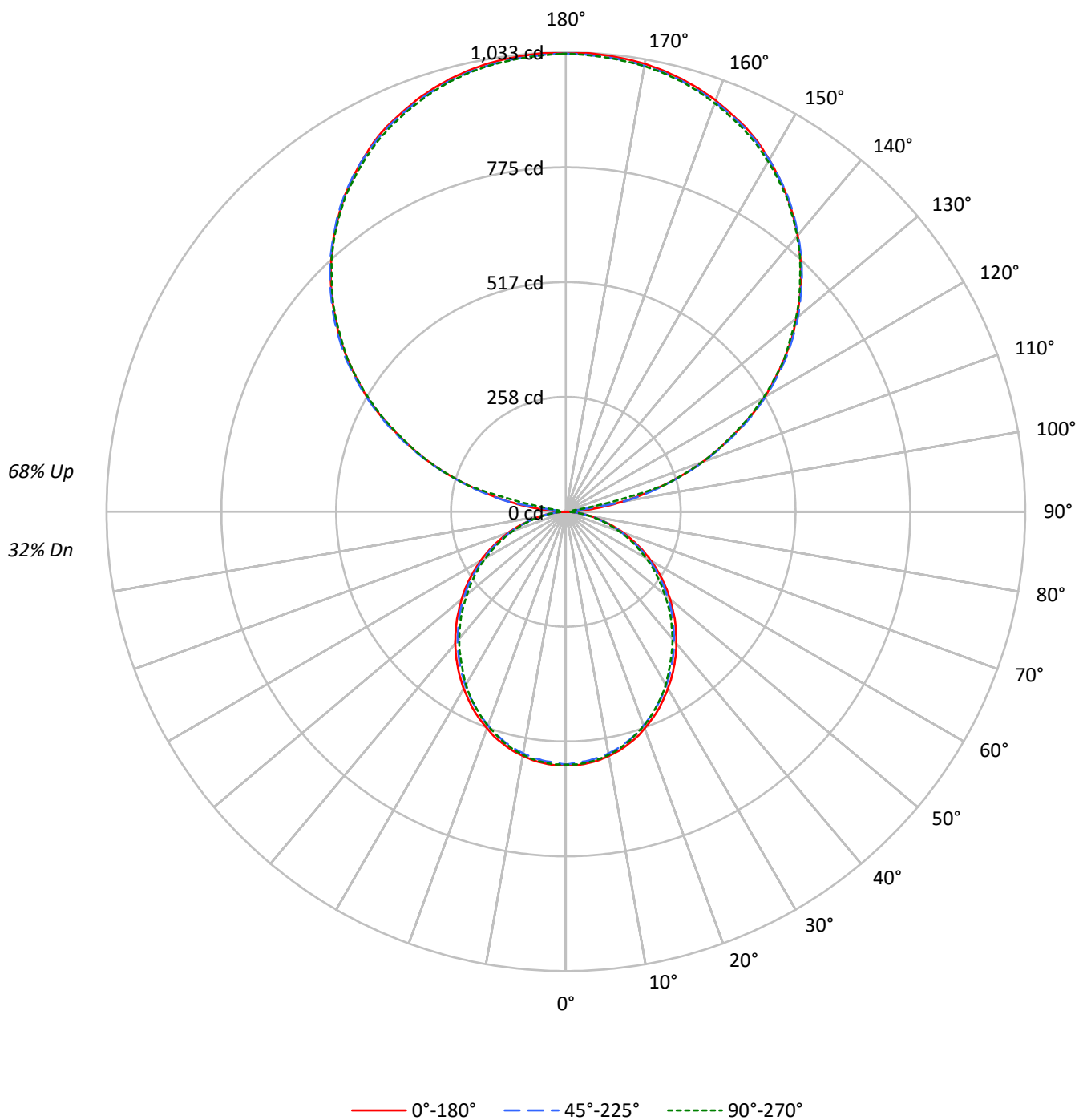
Lumens per Lamp: N/A
Luminaire Lumens: 4647.0 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	73	73	73	56	56	56	39	39	39
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33
2	85	78	72	67	76	70	65	61	56	53	50	43	41	38	31	29	28
3	78	69	61	56	70	62	56	51	49	45	42	38	35	32	27	25	24
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12
9	48	36	28	24	43	32	26	22	26	22	18	21	17	15	15	13	11
10	44	33	26	21	40	30	24	19	24	19	16	19	16	13	14	12	10

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	3.3
20°-30°	223.8	4.8
30°-40°	261.1	5.6
40°-50°	262.2	5.6
50°-60°	230.2	5.0
60°-70°	171.4	3.7
70°-80°	97.9	2.1
80°-90°	29.8	0.6
90°-100°	35.0	0.8
100°-110°	232.6	5.0
110°-120°	418.8	9.0
120°-130°	537.6	11.6
130°-140°	578.2	12.4
140°-150°	542.6	11.7
150°-160°	438.9	9.4
160°-170°	283.9	6.1
170°-180°	97.9	2.1
0°-30°	429.0	9.2
0°-40°	690.0	14.8
0°-60°	1182.4	25.4
0°-90°	1481.5	31.9
90°-120°	686.3	14.8
90°-150°	2344.8	50.5
90°-180°	3165.0	68.1
0°-180°	4647.0	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°	1	7	12	16	18	4
95°	44	41	12	16	16	53
105°	225	228	228	228	227	238
115°	422	426	426	423	419	418
125°	600	605	605	602	600	536
135°	748	752	751	749	745	577
145°	867	869	869	869	865	542
155°	955	950	952	954	948	440
165°	1008	1003	1004	1008	1002	285
175°	1030	1026	1027	1033	1026	98
180°	1030	1030	1030	1030	1030	

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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	6.9	12.2	16.0	18.3
92.5°	14.5	7.6	12.2	16.0	16.8
95°	43.5	41.3	12.2	16.0	16.0
97.5°	81.7	86.3	13.8	15.3	16.0
100°	127.6	129.9	132.9	19.1	16.0
102.5°	174.2	177.2	178.8	180.3	116.1
105°	224.6	227.6	227.6	227.6	226.9
107.5°	276.5	276.5	278.1	278.8	275.8
110°	326.9	326.9	328.5	326.2	326.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	374.3	376.6	377.4	374.3	372.8
115°	421.7	425.5	426.3	423.2	418.6
117.5°	471.3	471.3	474.4	469.8	468.3
120°	517.2	516.4	518.7	517.2	513.3
122.5°	557.6	561.5	562.2	560.7	556.1
125°	599.7	605.0	605.0	602.0	599.7
127.5°	640.1	644.0	643.2	641.7	635.6
130°	676.8	680.6	681.4	679.1	675.3
132.5°	713.5	718.1	715.8	715.8	712.0
135°	747.9	752.4	750.9	749.4	744.8
137.5°	779.9	784.5	783.0	783.0	779.2
140°	811.3	812.8	812.0	813.6	809.0
142.5°	839.5	840.3	841.8	841.8	837.2
145°	867.0	868.6	868.6	869.3	864.7
147.5°	891.5	891.5	892.2	893.0	887.6
150°	914.4	912.9	914.4	915.9	909.8
152.5°	936.5	932.7	934.2	935.8	930.4
155°	954.9	950.3	951.8	954.1	948.0
157.5°	969.4	967.1	967.1	969.4	963.3
160°	984.7	980.1	980.8	983.9	977.8
162.5°	996.9	992.3	993.1	997.7	990.8
165°	1007.6	1003.0	1003.8	1008.3	1002.2
167.5°	1016.0	1011.4	1012.2	1017.5	1010.6
170°	1022.9	1017.5	1018.3	1024.4	1017.5
172.5°	1027.4	1022.1	1023.6	1029.0	1022.1
175°	1030.5	1025.9	1026.7	1032.8	1025.9
177.5°	1032.8	1028.2	1029.0	1034.3	1028.2
180°	1030.5	1030.5	1030.5	1030.5	1030.5

(END OF REPORT)