

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: P1027202

Luminaire Tested: S125RDIP-B375D850UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027202
REPORT IS A COMBINATION OF REPORTS P1005493 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B375D850UB2750-4F0-XX-W2A-F_4000K
Description: Define 5 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

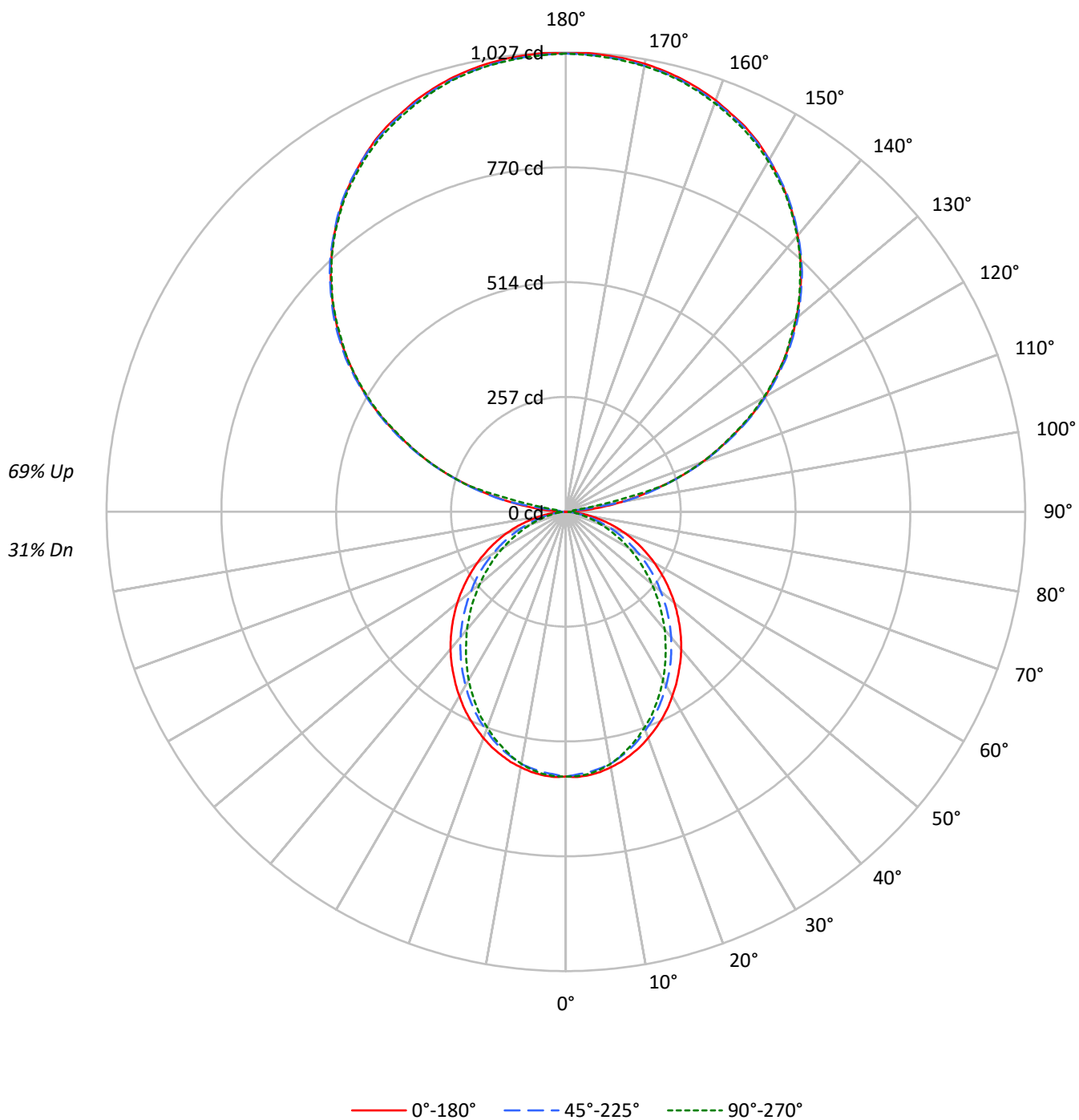
Lumens per Lamp: N/A
Luminaire Lumens: 4548.0 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38	31			
1	94	89	86	82	84	81	77	75	64	62	60	48	47	46	34	33	33	26			
2	85	78	72	67	76	71	66	61	56	53	50	43	40	38	30	29	28	22			
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24	19			
4	71	61	53	48	64	55	49	44	44	39	36	34	31	28	24	22	21	16			
5	65	54	46	41	58	49	42	37	39	34	31	30	27	24	22	20	18	14			
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13			
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11			
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10			
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9			
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	8			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3794	3794	3794
5°	3794	3699	3705
10°	3758	3606	3575
15°	3704	3476	3402
20°	3639	3319	3221
25°	3562	3165	3028
30°	3471	2997	2825
35°	3376	2826	2609
40°	3287	2650	2397
45°	3179	2460	2177
50°	3069	2258	1951
55°	2942	2061	1719
60°	2813	1834	1477
65°	2658	1580	1216
70°	2477	1287	957
75°	2228	967	697
80°	1878	627	471
85°	1407	336	265

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3179 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	1.2
10°-20°	155.7	3.4
20°-30°	225.8	5.0
30°-40°	257.3	5.7
40°-50°	250.8	5.5
50°-60°	211.0	4.6
60°-70°	147.9	3.3
70°-80°	75.8	1.7
80°-90°	20.4	0.4
90°-100°	34.8	0.8
100°-110°	231.2	5.1
110°-120°	416.4	9.2
120°-130°	534.5	11.8
130°-140°	574.9	12.6
140°-150°	539.6	11.9
150°-160°	436.4	9.6
160°-170°	282.3	6.2
170°-180°	97.3	2.1
0°-30°	437.3	9.6
0°-40°	694.6	15.3
0°-60°	1156.4	25.4
0°-90°	1400.5	30.8
90°-120°	682.5	15.0
90°-150°	2331.4	51.3
90°-180°	3147.0	69.2
0°-180°	4548.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	591	589	584	589	588	56
15°	562	560	550	550	546	159
25°	510	503	487	481	476	235
35°	439	428	408	395	389	275
45°	360	347	322	304	297	277
55°	273	258	234	213	206	244
65°	185	170	146	128	121	183
75°	98	85	66	56	53	104
85°	25	16	14	14	13	27
90°	1	7	12	16	18	4
95°	43	41	12	16	16	53
105°	223	226	226	226	226	237
115°	419	423	424	421	416	416
125°	596	602	602	598	596	533
135°	744	748	747	745	741	573
145°	862	864	864	864	860	539
155°	949	945	946	949	943	437
165°	1002	997	998	1003	996	283
175°	1025	1020	1021	1027	1020	98
180°	1025	1025	1025	1025	1025	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	592.1	592.1	592.1	592.1	592.1
2.5°	593.5	592.1	587.7	592.1	591.7
5°	591.2	589.4	584.5	589.0	588.1
7.5°	586.8	585.0	579.2	582.7	581.8
10°	580.1	578.7	572.5	573.8	572.5
12.5°	572.5	570.7	561.7	562.6	560.4
15°	562.2	559.5	550.1	549.6	545.6
17.5°	551.4	547.4	536.2	534.0	530.9
20°	538.5	534.0	519.7	517.4	513.4
22.5°	524.2	519.7	504.5	499.6	496.4
25°	509.8	503.1	486.6	480.8	475.9
27.5°	493.7	485.7	468.3	460.6	455.7
30°	475.9	467.4	448.6	438.3	434.3
32.5°	458.4	448.1	428.9	417.3	411.9
35°	439.2	428.4	408.3	395.4	389.1
37.5°	420.8	407.9	387.3	372.1	365.8
40°	401.2	387.7	366.3	349.3	343.9
42.5°	380.6	366.7	344.4	328.3	319.8
45°	359.6	346.6	322.0	304.1	297.4
47.5°	337.7	324.2	299.6	281.3	273.7
50°	317.1	302.3	276.8	258.1	251.3
52.5°	294.7	279.5	255.8	235.2	228.5
55°	272.8	258.5	233.5	213.3	206.2
57.5°	250.4	235.2	211.1	191.4	185.2
60°	229.0	213.3	189.2	169.5	162.8
62.5°	206.2	191.4	166.8	148.9	142.2
65°	184.7	169.5	145.8	127.9	121.2
67.5°	163.2	148.0	125.2	108.2	102.9
70°	141.3	126.1	103.8	89.9	84.5
72.5°	119.9	105.1	84.5	72.0	68.9
75°	98.4	85.0	66.2	56.4	53.2
77.5°	76.5	65.7	50.1	42.5	39.8
80°	58.1	47.4	34.9	30.9	30.0
82.5°	40.3	30.9	23.3	21.9	21.5
85°	24.6	16.5	14.3	13.9	13.4
87.5°	10.3	7.2	6.7	6.7	6.3
90°	0.8	6.8	12.2	16.0	18.2
92.5°	14.4	7.6	12.2	16.0	16.7
95°	43.3	41.0	12.2	16.0	16.0
97.5°	81.3	85.8	13.7	15.2	16.0
100°	126.8	129.1	132.2	19.0	16.0
102.5°	173.2	176.2	177.7	179.3	115.5
105°	223.3	226.3	226.3	226.3	225.6
107.5°	275.0	275.0	276.5	277.2	274.2
110°	325.1	325.1	326.6	324.3	325.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	372.2	374.5	375.2	372.2	370.7
115°	419.3	423.1	423.8	420.8	416.2
117.5°	468.6	468.6	471.7	467.1	465.6
120°	514.2	513.5	515.7	514.2	510.4
122.5°	554.5	558.3	559.0	557.5	553.0
125°	596.3	601.6	601.6	598.5	596.3
127.5°	636.5	640.3	639.5	638.0	632.0
130°	673.0	676.8	677.5	675.2	671.4
132.5°	709.4	714.0	711.7	711.7	707.9
135°	743.6	748.2	746.6	745.1	740.6
137.5°	775.5	780.1	778.5	778.5	774.7
140°	806.6	808.2	807.4	808.9	804.4
142.5°	834.8	835.5	837.0	837.0	832.5
145°	862.1	863.6	863.6	864.4	859.8
147.5°	886.4	886.4	887.2	887.9	882.6
150°	909.2	907.7	909.2	910.7	904.6
152.5°	931.2	927.4	928.9	930.5	925.1
155°	949.4	944.9	946.4	948.7	942.6
157.5°	963.9	961.6	961.6	963.9	957.8
160°	979.1	974.5	975.3	978.3	972.2
162.5°	991.2	986.7	987.4	992.0	985.1
165°	1001.9	997.3	998.1	1002.6	996.5
167.5°	1010.2	1005.7	1006.4	1011.7	1004.9
170°	1017.0	1011.7	1012.5	1018.6	1011.7
172.5°	1021.6	1016.3	1017.8	1023.1	1016.3
175°	1024.6	1020.1	1020.8	1026.9	1020.1
177.5°	1026.9	1022.4	1023.1	1028.4	1022.4
180°	1024.6	1024.6	1024.6	1024.6	1024.6

(END OF REPORT)