

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: P1027201

Luminaire Tested: S125RDIP-B375D850UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027201
REPORT IS A COMBINATION OF REPORTS P1005492 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_3500K
Description: Define 5 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

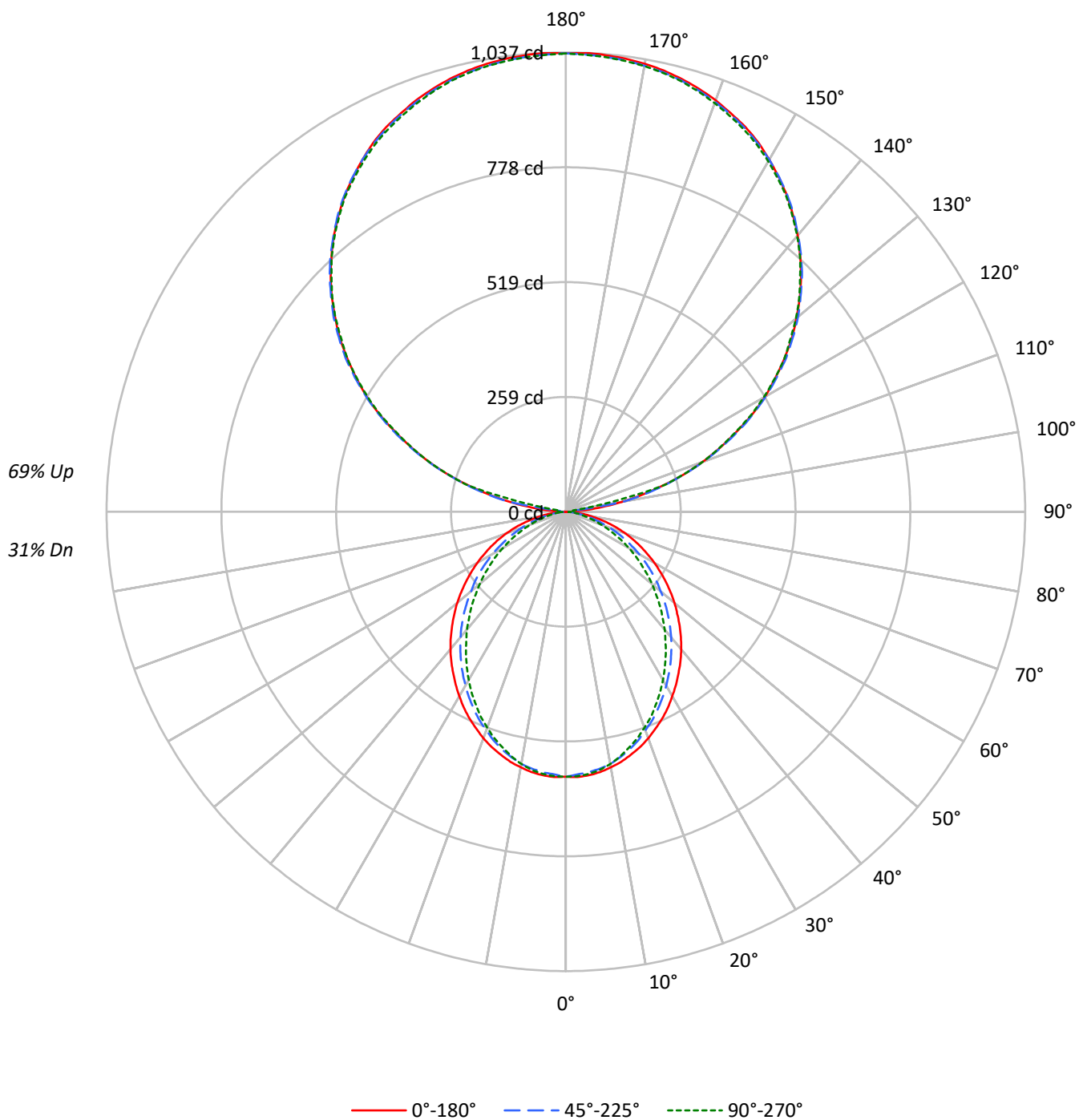
Lumens per Lamp: N/A
Luminaire Lumens: 4593.0 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	3832	3832	3832
5°	3833	3736	3742
10°	3795	3642	3610
15°	3741	3510	3436
20°	3675	3352	3254
25°	3598	3197	3058
30°	3505	3027	2853
35°	3410	2854	2635
40°	3319	2676	2422
45°	3211	2484	2198
50°	3100	2281	1971
55°	2971	2081	1736
60°	2841	1852	1492
65°	2685	1596	1228
70°	2501	1299	967
75°	2251	977	705
80°	1897	632	476
85°	1418	341	269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3211 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	1.2
10°-20°	157.3	3.4
20°-30°	228.1	5.0
30°-40°	259.9	5.7
40°-50°	253.3	5.5
50°-60°	213.2	4.6
60°-70°	149.4	3.3
70°-80°	76.6	1.7
80°-90°	20.6	0.4
90°-100°	35.1	0.8
100°-110°	233.5	5.1
110°-120°	420.5	9.2
120°-130°	539.8	11.8
130°-140°	580.6	12.6
140°-150°	544.9	11.9
150°-160°	440.7	9.6
160°-170°	285.0	6.2
170°-180°	98.3	2.1
0°-30°	441.7	9.6
0°-40°	701.5	15.3
0°-60°	1168.0	25.4
0°-90°	1414.6	30.8
90°-120°	689.2	15.0
90°-150°	2354.4	51.3
90°-180°	3178.0	69.2
0°-180°	4593.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	597	595	590	595	594	57
15°	568	565	556	555	551	160
25°	515	508	492	486	481	237
35°	444	433	412	399	393	278
45°	363	350	325	307	300	280
55°	276	261	236	216	208	246
65°	187	171	147	129	122	185
75°	99	86	67	57	54	105
85°	25	17	14	14	14	27
90°	1	7	12	16	18	4
95°	44	41	12	16	16	54
105°	226	229	229	229	228	239
115°	423	427	428	425	420	420
125°	602	608	608	604	602	538
135°	751	756	754	752	748	579
145°	871	872	872	873	868	544
155°	959	954	956	958	952	442
165°	1012	1007	1008	1012	1006	286
175°	1035	1030	1031	1037	1030	99
180°	1035	1035	1035	1035	1035	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	598.1	598.1	598.1	598.1	598.1
2.5°	599.4	598.1	593.5	598.1	597.6
5°	597.2	595.3	590.4	594.9	594.0
7.5°	592.6	590.8	585.0	588.6	587.7
10°	585.9	584.5	578.2	579.5	578.2
12.5°	578.2	576.4	567.3	568.2	566.0
15°	567.8	565.1	555.6	555.1	551.1
17.5°	557.0	552.9	541.6	539.3	536.2
20°	543.9	539.3	524.9	522.6	518.6
22.5°	529.4	524.9	509.5	504.6	501.4
25°	514.9	508.2	491.5	485.6	480.6
27.5°	498.7	490.6	472.9	465.3	460.3
30°	480.6	472.0	453.1	442.7	438.6
32.5°	463.0	452.6	433.2	421.4	416.0
35°	443.6	432.7	412.4	399.3	393.0
37.5°	425.1	412.0	391.2	375.8	369.5
40°	405.2	391.6	369.9	352.8	347.4
42.5°	384.4	370.4	347.8	331.6	323.0
45°	363.2	350.1	325.2	307.2	300.4
47.5°	341.0	327.5	302.6	284.1	276.4
50°	320.3	305.4	279.6	260.6	253.9
52.5°	297.7	282.3	258.4	237.6	230.8
55°	275.5	261.1	235.8	215.5	208.2
57.5°	253.0	237.6	213.2	193.3	187.0
60°	231.3	215.5	191.1	171.2	164.4
62.5°	208.2	193.3	168.5	150.4	143.6
65°	186.6	171.2	147.3	129.2	122.4
67.5°	164.9	149.5	126.5	109.3	103.9
70°	142.7	127.4	104.8	90.8	85.4
72.5°	121.1	106.2	85.4	72.7	69.6
75°	99.4	85.8	66.9	56.9	53.8
77.5°	77.2	66.4	50.6	42.9	40.2
80°	58.7	47.9	35.2	31.2	30.3
82.5°	40.7	31.2	23.5	22.1	21.7
85°	24.8	16.7	14.5	14.0	13.6
87.5°	10.4	7.2	6.8	6.8	6.3
90°	0.8	6.9	12.3	16.1	18.4
92.5°	14.6	7.7	12.3	16.1	16.9
95°	43.7	41.4	12.3	16.1	16.1
97.5°	82.1	86.7	13.8	15.3	16.1
100°	128.1	130.4	133.5	19.2	16.1
102.5°	174.9	178.0	179.5	181.0	116.6
105°	225.5	228.6	228.6	228.6	227.8
107.5°	277.7	277.7	279.2	280.0	276.9
110°	328.3	328.3	329.8	327.5	328.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	375.8	378.1	378.9	375.8	374.3
115°	423.4	427.2	428.0	424.9	420.3
117.5°	473.3	473.3	476.3	471.7	470.2
120°	519.3	518.5	520.8	519.3	515.4
122.5°	559.9	563.8	564.5	563.0	558.4
125°	602.1	607.5	607.5	604.4	602.1
127.5°	642.8	646.6	645.8	644.3	638.2
130°	679.6	683.4	684.2	681.9	678.1
132.5°	716.4	721.0	718.7	718.7	714.9
135°	750.9	755.5	754.0	752.5	747.9
137.5°	783.1	787.7	786.2	786.2	782.4
140°	814.6	816.1	815.4	816.9	812.3
142.5°	843.0	843.7	845.3	845.3	840.7
145°	870.6	872.1	872.1	872.9	868.3
147.5°	895.1	895.1	895.9	896.7	891.3
150°	918.1	916.6	918.1	919.7	913.5
152.5°	940.4	936.5	938.1	939.6	934.2
155°	958.8	954.2	955.7	958.0	951.9
157.5°	973.4	971.1	971.1	973.4	967.2
160°	988.7	984.1	984.9	987.9	981.8
162.5°	1001.0	996.4	997.1	1001.7	994.8
165°	1011.7	1007.1	1007.9	1012.5	1006.3
167.5°	1020.2	1015.6	1016.3	1021.7	1014.8
170°	1027.1	1021.7	1022.5	1028.6	1021.7
172.5°	1031.7	1026.3	1027.8	1033.2	1026.3
175°	1034.7	1030.1	1030.9	1037.0	1030.1
177.5°	1037.0	1032.4	1033.2	1038.6	1032.4
180°	1034.7	1034.7	1034.7	1034.7	1034.7

(END OF REPORT)