

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: P1027179

Luminaire Tested: S125RDIP-B375D375UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027179
REPORT IS A COMBINATION OF REPORTS P1005410 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B375D375UB2750-4F0-XX-W2A-F_2700K
Description: Define 5 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

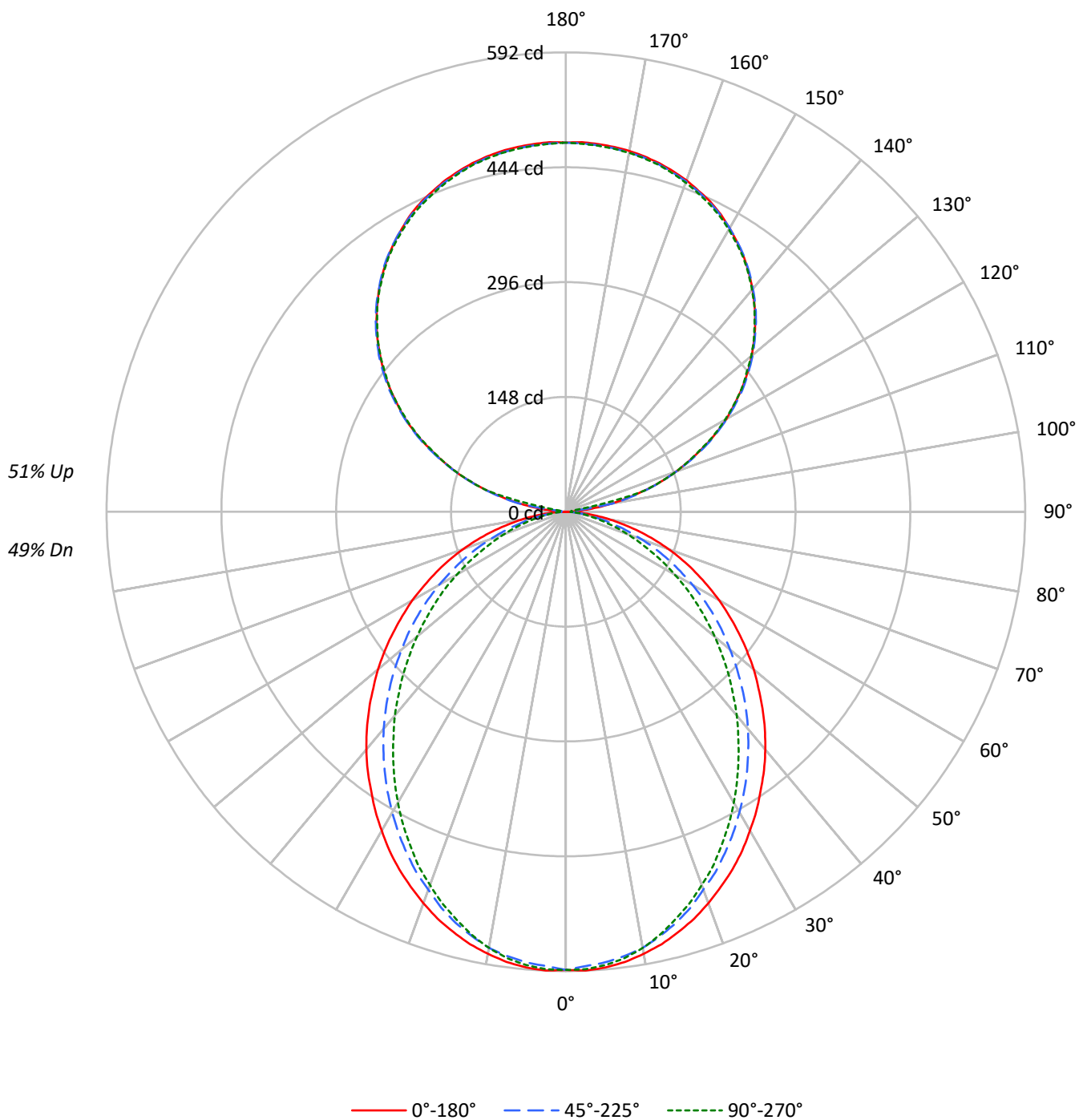
Lumens per Lamp: N/A
Luminaire Lumens: 2857.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
Input Voltage (V): 120
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	50	30	10
RCR																				
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55			49
1	98	94	90	86	90	86	83	80	73	71	68	60	59	57	49	48	47			42
2	89	82	76	71	82	76	70	66	64	60	57	53	51	48	43	42	40			35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34			30
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	30			26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26			23
6	63	51	43	37	58	48	41	35	41	35	31	34	30	27	28	25	23			20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20			18
8	54	42	34	29	50	39	32	28	34	28	24	29	24	21	24	21	18			16
9	51	38	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17			14
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	21	17	15			13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3783	3783	3783
5°	3783	3689	3695
10°	3747	3596	3564
15°	3694	3466	3393
20°	3628	3309	3213
25°	3553	3156	3019
30°	3461	2988	2816
35°	3366	2818	2601
40°	3277	2642	2390
45°	3169	2453	2171
50°	3061	2252	1946
55°	2934	2055	1714
60°	2804	1828	1472
65°	2650	1576	1213
70°	2470	1283	955
75°	2221	964	696
80°	1874	625	469
85°	1401	336	265

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3169 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	1.9
10°-20°	155.3	5.4
20°-30°	225.2	7.9
30°-40°	256.5	9.0
40°-50°	250.0	8.8
50°-60°	210.4	7.4
60°-70°	147.5	5.2
70°-80°	75.6	2.6
80°-90°	19.6	0.7
90°-100°	16.1	0.6
100°-110°	107.4	3.8
110°-120°	193.3	6.8
120°-130°	248.2	8.7
130°-140°	266.9	9.3
140°-150°	250.5	8.8
150°-160°	202.6	7.1
160°-170°	131.0	4.6
170°-180°	45.2	1.6
0°-30°	436.0	15.3
0°-40°	692.6	24.2
0°-60°	1153.1	40.4
0°-90°	1395.7	48.9
90°-120°	316.8	11.1
90°-150°	1082.4	37.9
90°-180°	1461.0	51.1
0°-180°	2857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	590	588	583	587	586	56
15°	561	558	548	548	544	158
25°	508	502	485	479	474	234
35°	438	427	407	394	388	274
45°	358	346	321	303	297	277
55°	272	258	233	213	206	243
65°	184	169	145	128	121	182
75°	98	85	66	56	53	104
85°	24	16	14	14	13	27
90°	0	3	6	7	8	2
95°	20	19	6	7	7	25
105°	104	105	105	105	105	110
115°	195	196	197	195	193	193
125°	277	279	279	278	277	247
135°	345	347	347	346	344	266
145°	400	401	401	401	399	250
155°	441	439	439	440	438	203
165°	465	463	463	466	463	131
175°	476	474	474	477	474	45
180°	476	476	476	476	476	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	590.4	590.4	590.4	590.4	590.4
2.5°	591.8	590.4	586.0	590.4	590.0
5°	589.5	587.8	582.9	587.3	586.4
7.5°	585.1	583.3	577.5	581.1	580.2
10°	578.4	577.1	570.8	572.2	570.8
12.5°	570.8	569.0	560.1	561.0	558.8
15°	560.6	557.9	548.5	548.1	544.1
17.5°	549.9	545.8	534.7	532.5	529.3
20°	536.9	532.5	518.2	516.0	512.0
22.5°	522.7	518.2	503.0	498.1	495.0
25°	508.4	501.7	485.2	479.4	474.5
27.5°	492.3	484.3	466.9	459.3	454.4
30°	474.5	466.0	447.3	437.0	433.0
32.5°	457.1	446.8	427.7	416.1	410.7
35°	437.9	427.2	407.2	394.2	388.0
37.5°	419.6	406.7	386.2	371.0	364.8
40°	400.0	386.6	365.2	348.3	342.9
42.5°	379.5	365.7	343.4	327.3	318.9
45°	358.5	345.6	321.1	303.2	296.6
47.5°	336.7	323.3	298.8	280.5	272.9
50°	316.2	301.5	276.0	257.3	250.6
52.5°	293.9	278.7	255.1	234.6	227.9
55°	272.0	257.8	232.8	212.7	205.6
57.5°	249.7	234.6	210.5	190.9	184.6
60°	228.3	212.7	188.6	169.0	162.3
62.5°	205.6	190.9	166.3	148.5	141.8
65°	184.2	169.0	145.4	127.5	120.9
67.5°	162.8	147.6	124.9	107.9	102.6
70°	140.9	125.8	103.5	89.6	84.3
72.5°	119.5	104.8	84.3	71.8	68.7
75°	98.1	84.7	66.0	56.2	53.1
77.5°	76.3	65.6	49.9	42.4	39.7
80°	58.0	47.3	34.8	30.8	29.9
82.5°	40.1	30.8	23.2	21.9	21.4
85°	24.5	16.5	14.3	13.8	13.4
87.5°	10.3	7.1	6.7	6.7	6.2
90°	0.4	3.2	5.6	7.4	8.5
92.5°	6.7	3.5	5.6	7.4	7.8
95°	20.1	19.0	5.6	7.4	7.4
97.5°	37.7	39.8	6.3	7.1	7.4
100°	58.9	59.9	61.4	8.8	7.4
102.5°	80.4	81.8	82.5	83.2	53.6
105°	103.7	105.1	105.1	105.1	104.7
107.5°	127.7	127.7	128.4	128.7	127.3
110°	150.9	150.9	151.6	150.6	150.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	172.8	173.9	174.2	172.8	172.1
115°	194.7	196.4	196.8	195.4	193.2
117.5°	217.6	217.6	219.0	216.9	216.2
120°	238.7	238.4	239.4	238.7	237.0
122.5°	257.4	259.2	259.5	258.8	256.7
125°	276.8	279.3	279.3	277.9	276.8
127.5°	295.5	297.3	296.9	296.2	293.4
130°	312.4	314.2	314.6	313.5	311.7
132.5°	329.4	331.5	330.4	330.4	328.7
135°	345.2	347.4	346.6	345.9	343.8
137.5°	360.0	362.2	361.5	361.5	359.7
140°	374.5	375.2	374.9	375.6	373.4
142.5°	387.6	387.9	388.6	388.6	386.5
145°	400.2	401.0	401.0	401.3	399.2
147.5°	411.5	411.5	411.9	412.2	409.8
150°	422.1	421.4	422.1	422.8	420.0
152.5°	432.3	430.6	431.3	432.0	429.5
155°	440.8	438.7	439.4	440.5	437.6
157.5°	447.5	446.4	446.4	447.5	444.7
160°	454.6	452.4	452.8	454.2	451.4
162.5°	460.2	458.1	458.4	460.6	457.4
165°	465.1	463.0	463.4	465.5	462.7
167.5°	469.0	466.9	467.3	469.7	466.5
170°	472.2	469.7	470.1	472.9	469.7
172.5°	474.3	471.8	472.5	475.0	471.8
175°	475.7	473.6	474.0	476.8	473.6
177.5°	476.8	474.7	475.0	477.5	474.7
180°	475.7	475.7	475.7	475.7	475.7

(END OF REPORT)