

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: P1027161

Luminaire Tested: S125RDIP-B375D1090UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027161
REPORT IS A COMBINATION OF REPORTS P1005332 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B375D1090UB2750-4F0-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

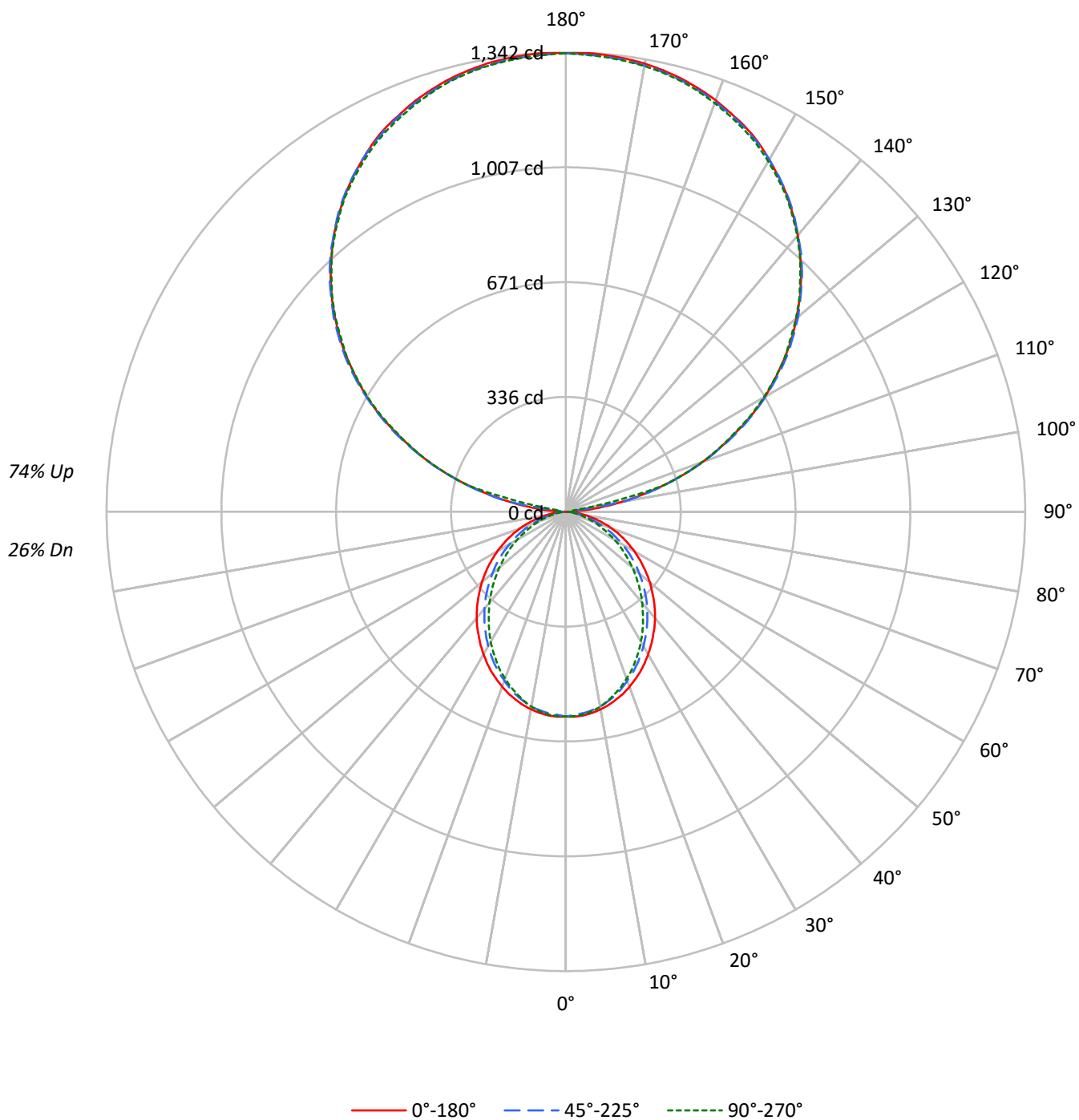
Lumens per Lamp: N/A
Luminaire Lumens: 5529.0 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34
1	92	88	85	81	82	79	76	73	61	59	57	45	44	43	30	29	29
2	84	77	71	66	75	69	64	60	54	50	48	40	37	36	26	25	24
3	77	68	61	55	68	61	55	50	47	43	40	35	32	30	24	22	21
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	19	18
5	64	53	46	40	57	48	41	36	38	33	29	28	25	22	19	17	16
6	59	48	40	34	53	43	36	31	34	29	25	25	22	20	17	15	14
7	55	43	35	30	49	39	32	27	30	26	22	23	20	17	16	14	12
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	14	12	11
9	47	35	28	23	42	32	26	21	25	21	17	19	16	14	13	11	10
10	44	32	25	21	39	29	23	19	23	19	16	18	14	12	12	10	9

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	1.0
10°-20°	157.3	2.8
20°-30°	228.1	4.1
30°-40°	259.9	4.7
40°-50°	253.3	4.6
50°-60°	213.2	3.9
60°-70°	149.4	2.7
70°-80°	76.6	1.4
80°-90°	21.1	0.4
90°-100°	45.4	0.8
100°-110°	302.3	5.5
110°-120°	544.3	9.8
120°-130°	698.7	12.6
130°-140°	751.4	13.6
140°-150°	705.3	12.8
150°-160°	570.5	10.3
160°-170°	368.9	6.7
170°-180°	127.2	2.3
0°-30°	441.7	8.0
0°-40°	701.5	12.7
0°-60°	1168.0	21.1
0°-90°	1415.0	25.6
90°-120°	892.0	16.1
90°-150°	3047.4	55.1
90°-180°	4114.0	74.4
0°-180°	5529.0	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	9	16	21	24	4
95°	57	54	16	21	21	69
105°	292	296	296	296	295	309
115°	548	553	554	550	544	543
125°	779	786	786	782	779	696
135°	972	978	976	974	968	749
145°	1127	1129	1129	1130	1124	705
155°	1241	1235	1237	1240	1232	572
165°	1310	1304	1304	1310	1303	370
175°	1339	1333	1334	1342	1333	128
180°	1339	1339	1339	1339	1339	

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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°	1.0	8.9	15.9	20.8	23.8
92.5°	18.9	9.9	15.9	20.8	21.8
95°	56.6	53.6	15.9	20.8	20.8
97.5°	106.2	112.2	17.9	19.9	20.8
100°	165.8	168.8	172.7	24.8	20.8
102.5°	226.4	230.3	232.3	234.3	150.9
105°	291.9	295.9	295.9	295.9	294.9
107.5°	359.4	359.4	361.4	362.4	358.4
110°	424.9	424.9	426.9	423.9	424.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	486.5	489.5	490.4	486.5	484.5
115°	548.0	553.0	554.0	550.0	544.1
117.5°	612.6	612.6	616.5	610.6	608.6
120°	672.1	671.1	674.1	672.1	667.2
122.5°	724.7	729.7	730.7	728.7	722.8
125°	779.3	786.3	786.3	782.3	779.3
127.5°	832.0	836.9	835.9	834.0	826.0
130°	879.6	884.6	885.6	882.6	877.6
132.5°	927.3	933.2	930.3	930.3	925.3
135°	972.0	977.9	975.9	973.9	968.0
137.5°	1013.7	1019.6	1017.6	1017.6	1012.7
140°	1054.4	1056.3	1055.3	1057.3	1051.4
142.5°	1091.1	1092.1	1094.1	1094.1	1088.1
145°	1126.8	1128.8	1128.8	1129.8	1123.9
147.5°	1158.6	1158.6	1159.6	1160.6	1153.6
150°	1188.4	1186.4	1188.4	1190.4	1182.4
152.5°	1217.2	1212.2	1214.2	1216.2	1209.2
155°	1241.0	1235.0	1237.0	1240.0	1232.1
157.5°	1259.9	1256.9	1256.9	1259.9	1251.9
160°	1279.7	1273.8	1274.8	1278.7	1270.8
162.5°	1295.6	1289.6	1290.6	1296.6	1287.7
165°	1309.5	1303.5	1304.5	1310.5	1302.6
167.5°	1320.4	1314.5	1315.5	1322.4	1313.5
170°	1329.4	1322.4	1323.4	1331.3	1322.4
172.5°	1335.3	1328.4	1330.4	1337.3	1328.4
175°	1339.3	1333.3	1334.3	1342.3	1333.3
177.5°	1342.3	1336.3	1337.3	1344.3	1336.3
180°	1339.3	1339.3	1339.3	1339.3	1339.3

(END OF REPORT)