

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: P1012410

Luminaire Tested: S123RDIP-B340D1025UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012410
REPORT IS A COMBINATION OF REPORTS P993123 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D1025UB27-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

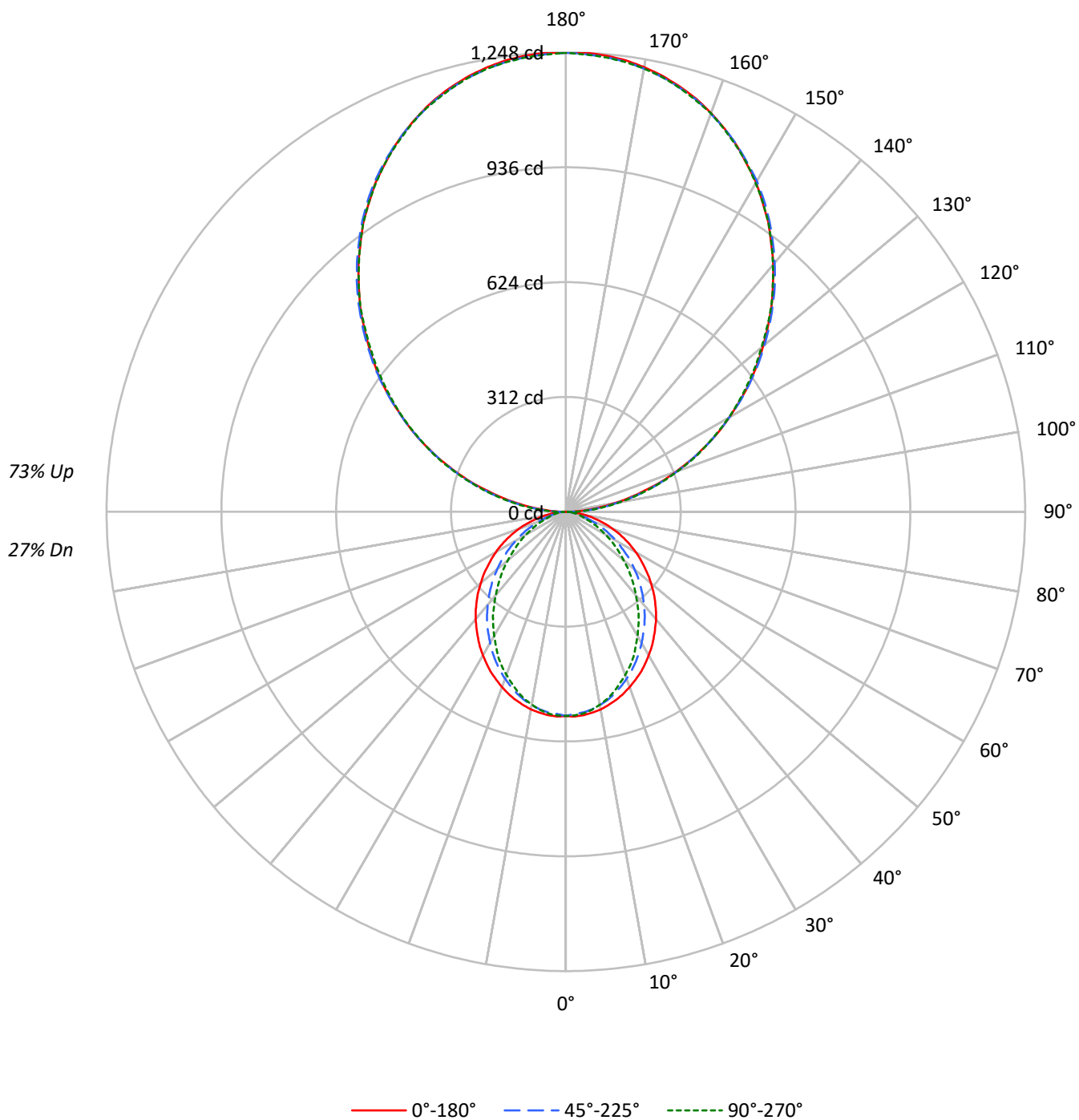
Lumens per Lamp: N/A
Luminaire Lumens: 4711.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35
1	93	89	85	82	83	79	76	73	62	60	58	46	44	43	31	30	30
2	85	78	72	67	75	69	65	60	54	51	48	40	38	36	27	26	25
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	24	23	22
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19
5	65	54	46	40	58	48	42	37	38	33	30	29	25	23	20	18	16
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	14
7	55	43	36	30	49	39	32	28	31	26	23	23	20	18	16	14	13
8	51	39	32	27	45	35	29	25	28	23	20	21	18	16	15	13	11
9	47	36	29	24	42	32	26	22	26	21	18	20	16	14	14	12	10
10	44	33	26	21	39	30	23	19	24	19	16	18	15	13	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5970	5970	5970
5°	5979	5759	5743
10°	5933	5542	5433
15°	5856	5274	5093
20°	5754	4984	4714
25°	5650	4681	4354
30°	5517	4359	3929
35°	5379	4043	3541
40°	5249	3700	3114
45°	5084	3364	2729
50°	4901	3006	2331
55°	4711	2622	1966
60°	4529	2229	1596
65°	4296	1826	1246
70°	3999	1381	891
75°	3576	935	706
80°	3051	649	495
85°	2286	351	259

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5084 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	1.1
10°-20°	145.0	3.1
20°-30°	208.8	4.4
30°-40°	235.2	5.0
40°-50°	225.0	4.8
50°-60°	184.1	3.9
60°-70°	124.2	2.6
70°-80°	62.3	1.3
80°-90°	18.9	0.4
90°-100°	80.3	1.7
100°-110°	243.0	5.2
110°-120°	413.6	8.8
120°-130°	544.2	11.6
130°-140°	611.7	13.0
140°-150°	601.3	12.8
150°-160°	506.3	10.7
160°-170°	337.0	7.2
170°-180°	118.0	2.5
0°-30°	406.0	8.6
0°-40°	641.2	13.6
0°-60°	1050.3	22.3
0°-90°	1255.6	26.7
90°-120°	736.9	15.6
90°-150°	2494.0	52.9
90°-180°	3455.0	73.3
0°-180°	4711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	555	555	555	555	555	
5°	555	552	547	551	550	53
15°	529	524	511	509	506	149
25°	481	470	449	440	435	221
35°	416	400	372	353	345	261
45°	342	322	287	262	251	264
55°	260	238	200	174	165	233
65°	178	153	118	96	91	176
75°	94	72	48	43	42	100
85°	24	14	13	12	12	26
90°	1	11	24	27	29	6
95°	58	65	72	76	76	64
105°	220	222	231	231	233	236
115°	416	419	417	418	417	412
125°	609	612	610	606	602	543
135°	791	796	796	792	790	609
145°	959	961	964	963	959	599
155°	1098	1098	1099	1103	1096	506
165°	1196	1193	1193	1199	1192	337
175°	1244	1240	1240	1246	1239	118
180°	1247	1247	1247	1247	1247	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	554.6	554.6	554.6	554.6	554.6
2.5°	556.9	555.1	549.7	554.6	553.7
5°	554.6	552.4	547.0	551.0	550.1
7.5°	550.6	548.3	541.6	544.3	542.9
10°	545.2	542.0	533.9	534.4	532.1
12.5°	537.5	533.9	523.6	523.1	520.4
15°	529.0	524.0	511.4	509.2	506.0
17.5°	518.6	513.2	497.5	493.0	488.5
20°	506.9	499.7	482.7	476.8	471.4
22.5°	493.9	485.4	466.9	459.3	454.3
25°	481.3	470.1	449.4	439.9	435.0
27.5°	466.0	453.9	431.4	418.8	411.1
30°	450.3	436.8	411.6	396.3	389.1
32.5°	434.5	418.8	391.8	374.7	367.1
35°	416.5	400.3	372.4	353.1	345.0
37.5°	398.5	381.0	351.8	330.2	320.3
40°	381.4	361.7	329.7	306.3	296.0
42.5°	362.1	342.3	309.0	282.9	273.9
45°	342.3	322.1	287.4	261.8	251.0
47.5°	323.0	300.5	266.3	238.4	229.0
50°	301.4	280.2	243.8	215.9	205.6
52.5°	282.0	258.6	222.7	193.4	184.4
55°	260.0	238.0	199.7	173.6	164.6
57.5°	240.2	216.4	177.7	152.9	145.3
60°	219.5	194.8	157.4	133.1	125.5
62.5°	198.8	174.1	136.7	114.3	106.2
65°	177.7	152.9	117.9	95.8	90.9
67.5°	156.5	131.3	97.2	80.5	75.1
70°	135.8	111.6	80.1	64.3	59.4
72.5°	115.2	91.3	63.4	51.3	49.9
75°	94.0	72.4	47.7	43.2	42.3
77.5°	74.7	54.9	37.3	34.6	33.7
80°	56.2	37.8	28.3	27.0	26.1
82.5°	38.7	23.4	20.2	18.9	18.9
85°	23.8	13.9	12.6	11.7	11.7
87.5°	10.8	5.8	5.8	5.4	4.9
90°	1.0	10.8	23.5	27.4	29.4
92.5°	29.4	35.3	41.1	44.1	42.1
95°	57.8	64.7	72.5	76.4	76.4
97.5°	95.0	99.9	105.8	110.7	109.7
100°	133.2	139.1	144.0	146.9	148.9
102.5°	177.3	180.2	187.1	190.0	189.1
105°	220.4	222.4	231.2	231.2	233.1
107.5°	271.4	272.3	276.3	279.2	278.2
110°	318.4	320.3	322.3	326.2	324.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	367.4	368.3	368.3	373.2	373.2
115°	416.3	419.3	417.3	418.3	417.3
117.5°	466.3	467.3	465.3	465.3	462.4
120°	512.3	518.2	513.3	512.3	510.4
122.5°	560.3	564.3	562.3	559.4	556.4
125°	609.3	612.3	610.3	606.4	602.5
127.5°	654.4	660.3	658.3	652.4	648.5
130°	699.4	707.3	704.3	700.4	693.6
132.5°	744.5	752.3	750.4	745.5	740.6
135°	790.6	796.4	795.5	791.5	789.6
137.5°	832.7	837.6	840.5	835.6	832.7
140°	876.8	881.7	882.6	881.7	874.8
142.5°	916.9	921.8	923.8	922.8	917.9
145°	959.0	961.0	963.9	963.0	959.0
147.5°	995.3	999.2	1002.2	1002.2	996.3
150°	1033.5	1035.5	1037.4	1037.4	1031.5
152.5°	1064.8	1067.8	1068.8	1070.7	1065.8
155°	1098.2	1098.2	1099.1	1103.1	1096.2
157.5°	1126.6	1125.6	1126.6	1130.5	1124.6
160°	1153.0	1151.1	1151.1	1156.0	1152.0
162.5°	1176.5	1173.6	1174.6	1179.5	1172.6
165°	1196.1	1193.2	1193.2	1199.1	1192.2
167.5°	1212.8	1208.9	1209.8	1215.7	1209.8
170°	1226.5	1222.6	1222.6	1229.4	1222.6
172.5°	1237.3	1233.3	1233.3	1239.2	1232.4
175°	1244.1	1240.2	1240.2	1246.1	1239.2
177.5°	1248.0	1244.1	1244.1	1250.0	1243.1
180°	1247.1	1247.1	1247.1	1247.1	1247.1

(END OF REPORT)