

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: P999860

Luminaire Tested: SA2XXRDIP-B485D925UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999860
REPORT IS A COMBINATION OF REPORTS P988415 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B485D925UB50-4F0-XX-W2A-F
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

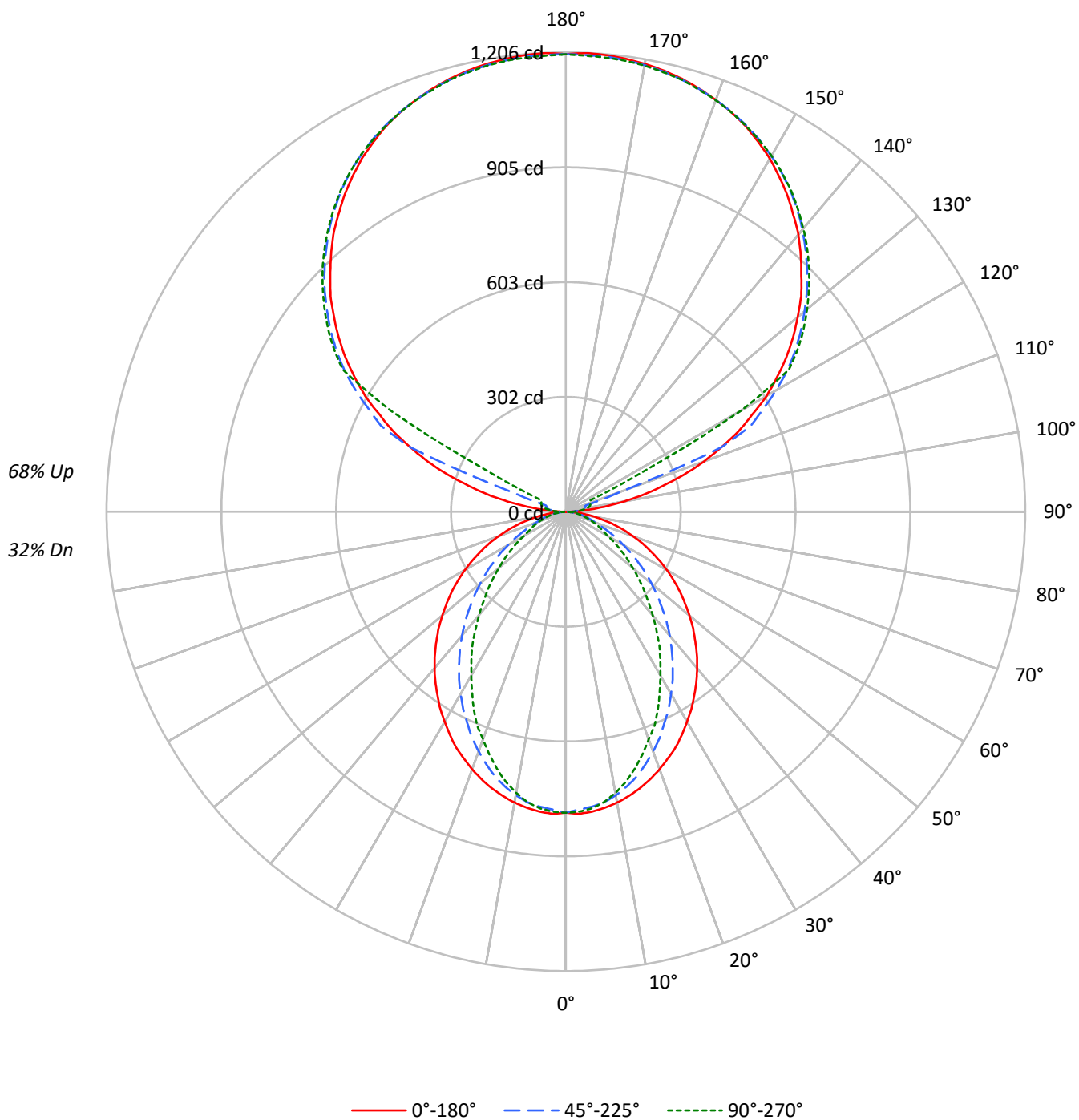
Lumens per Lamp: N/A
Luminaire Lumens: 5149.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	34	34
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	30	29
3	78	69	63	57	70	63	57	52	50	46	43	39	36	34	28	26	25
4	72	62	54	48	64	56	49	44	45	40	37	35	32	29	25	23	22
5	66	55	47	42	59	50	43	38	40	35	32	31	28	25	23	21	19
6	61	49	42	36	55	45	38	33	36	31	28	28	25	22	21	19	17
7	56	44	37	32	50	40	34	29	33	28	24	26	22	20	19	17	15
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	15	14
9	48	37	30	25	44	34	27	23	27	23	19	22	18	16	16	14	12
10	45	34	27	22	41	31	25	21	25	21	17	20	17	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12507	12507	12507
5°	12527	11900	11810
10°	12404	11285	10913
15°	12233	10561	9890
20°	12007	9738	8820
25°	11778	8893	7840
30°	11467	8069	6770
35°	11163	7240	5852
40°	10854	6424	4907
45°	10494	5582	4082
50°	10123	4772	3322
55°	9737	3961	2638
60°	9285	3168	1996
65°	8770	2414	1623
70°	8146	1751	1290
75°	7362	1336	986
80°	6219	904	662
85°	4337	415	320

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10494 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	1.4
10°-20°	203.3	3.9
20°-30°	285.4	5.5
30°-40°	311.1	6.0
40°-50°	285.9	5.6
50°-60°	224.6	4.4
60°-70°	146.2	2.8
70°-80°	75.2	1.5
80°-90°	21.3	0.4
90°-100°	39.6	0.8
100°-110°	147.7	2.9
110°-120°	391.6	7.6
120°-130°	649.6	12.6
130°-140°	690.0	13.4
140°-150°	641.3	12.5
150°-160°	515.6	10.0
160°-170°	332.2	6.5
170°-180°	114.3	2.2
0°-30°	562.8	10.9
0°-40°	873.9	17.0
0°-60°	1384.4	26.9
0°-90°	1627.1	31.6
90°-120°	578.9	11.2
90°-150°	2559.8	49.7
90°-180°	3522.0	68.4
0°-180°	5149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	790	790	790	790	790	
5°	790	787	777	784	782	75
15°	752	744	719	706	699	212
25°	682	659	612	583	572	314
35°	588	551	488	443	428	368
45°	480	433	358	307	290	371
55°	365	310	232	190	176	326
65°	247	189	124	100	98	245
75°	132	82	57	52	52	139
85°	31	16	14	14	14	35
90°	1	10	17	22	24	5
95°	56	28	34	38	37	67
105°	264	290	53	63	66	282
115°	500	515	536	134	71	492
125°	707	718	734	741	743	630
135°	874	888	896	905	903	676
145°	1014	1014	1028	1034	1030	634
155°	1117	1109	1120	1125	1118	515
165°	1177	1172	1174	1180	1174	333
175°	1204	1198	1200	1206	1197	115
180°	1201	1201	1201	1201	1201	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	790.1	790.1	790.1	790.1	790.1
2.5°	793.7	790.1	782.3	789.4	788.0
5°	790.1	786.6	777.3	783.7	781.5
7.5°	783.7	779.4	769.4	772.3	768.7
10°	775.1	770.1	755.8	753.7	749.4
12.5°	764.4	758.0	738.6	734.4	726.5
15°	751.5	743.6	719.3	705.8	698.6
17.5°	736.5	725.1	695.0	679.3	667.9
20°	719.3	705.0	669.3	651.4	635.7
22.5°	700.7	684.3	642.8	618.5	607.8
25°	682.2	659.3	612.1	582.8	572.0
27.5°	660.0	635.7	583.5	549.9	533.4
30°	636.4	609.2	552.0	515.5	496.2
32.5°	613.5	580.6	522.0	479.1	461.2
35°	587.8	551.3	488.4	443.3	427.6
37.5°	562.7	523.4	456.9	407.6	389.7
40°	536.3	493.4	424.0	373.3	354.7
42.5°	509.1	463.4	391.1	338.2	320.3
45°	480.5	432.6	357.5	306.8	289.6
47.5°	453.3	402.6	325.3	274.6	258.8
50°	423.3	372.5	293.9	244.5	229.5
52.5°	394.0	340.4	263.9	216.7	203.1
55°	365.4	309.6	232.4	189.5	175.9
57.5°	336.1	278.9	204.5	164.5	153.0
60°	306.0	248.8	175.2	138.7	127.3
62.5°	276.7	219.5	150.2	115.8	110.1
65°	246.7	188.8	124.4	100.1	98.0
67.5°	218.1	160.2	100.1	88.0	85.8
70°	188.1	132.3	82.9	75.8	72.9
72.5°	159.5	106.5	69.4	63.6	62.2
75°	131.6	81.5	57.2	52.2	51.5
77.5°	103.7	57.9	45.0	42.2	40.8
80°	77.9	41.5	34.3	31.5	31.5
82.5°	54.3	27.9	23.6	22.2	22.2
85°	30.7	15.7	13.6	13.6	13.6
87.5°	11.4	5.7	5.7	5.0	5.0
90°	0.9	10.4	17.4	21.7	23.5
92.5°	21.7	18.3	20.9	22.6	23.5
95°	56.5	27.8	33.9	38.2	37.4
97.5°	101.7	30.4	44.3	46.9	47.8
100°	153.9	34.8	49.5	56.5	58.2
102.5°	211.2	209.5	51.3	60.8	63.5
105°	264.3	290.3	53.0	62.6	66.1
107.5°	326.0	347.7	54.8	64.3	67.8
110°	385.1	403.3	152.1	65.2	68.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	440.7	456.4	441.6	66.9	69.5
115°	499.8	514.6	536.3	133.9	71.3
117.5°	551.1	568.5	583.3	459.0	231.2
120°	608.5	621.5	637.2	647.6	530.3
122.5°	657.2	671.1	688.5	693.7	694.5
125°	706.7	718.0	734.5	740.6	743.2
127.5°	751.9	764.1	777.1	785.8	786.7
130°	794.5	808.4	818.0	827.5	826.7
132.5°	838.0	849.3	858.8	866.7	865.8
135°	874.5	888.4	896.2	904.9	903.2
137.5°	912.7	923.2	931.9	940.6	937.9
140°	950.1	957.1	966.6	974.5	970.1
142.5°	981.4	987.5	998.8	1005.7	1001.4
145°	1014.4	1013.6	1028.3	1034.4	1030.1
147.5°	1043.1	1040.5	1055.3	1059.6	1056.2
150°	1070.9	1064.9	1078.8	1084.0	1079.6
152.5°	1094.4	1087.5	1100.5	1105.7	1099.6
155°	1117.0	1109.2	1119.6	1124.8	1117.9
157.5°	1135.3	1128.3	1136.1	1142.2	1135.3
160°	1150.9	1145.7	1150.9	1156.1	1150.0
162.5°	1164.8	1159.6	1164.0	1170.0	1162.2
165°	1177.0	1171.8	1174.4	1180.5	1174.4
167.5°	1186.6	1181.3	1183.9	1190.0	1182.2
170°	1194.4	1189.2	1190.9	1197.0	1189.2
172.5°	1199.6	1194.4	1196.1	1202.2	1194.4
175°	1203.9	1197.9	1199.6	1205.7	1197.0
177.5°	1205.7	1199.6	1200.5	1206.5	1198.7
180°	1201.3	1201.3	1201.3	1201.3	1201.3

(END OF REPORT)