

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: P999849

Luminaire Tested: SA2XXRDIP-B485D925UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999849
REPORT IS A COMBINATION OF REPORTS P988404 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B485D925UB35-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

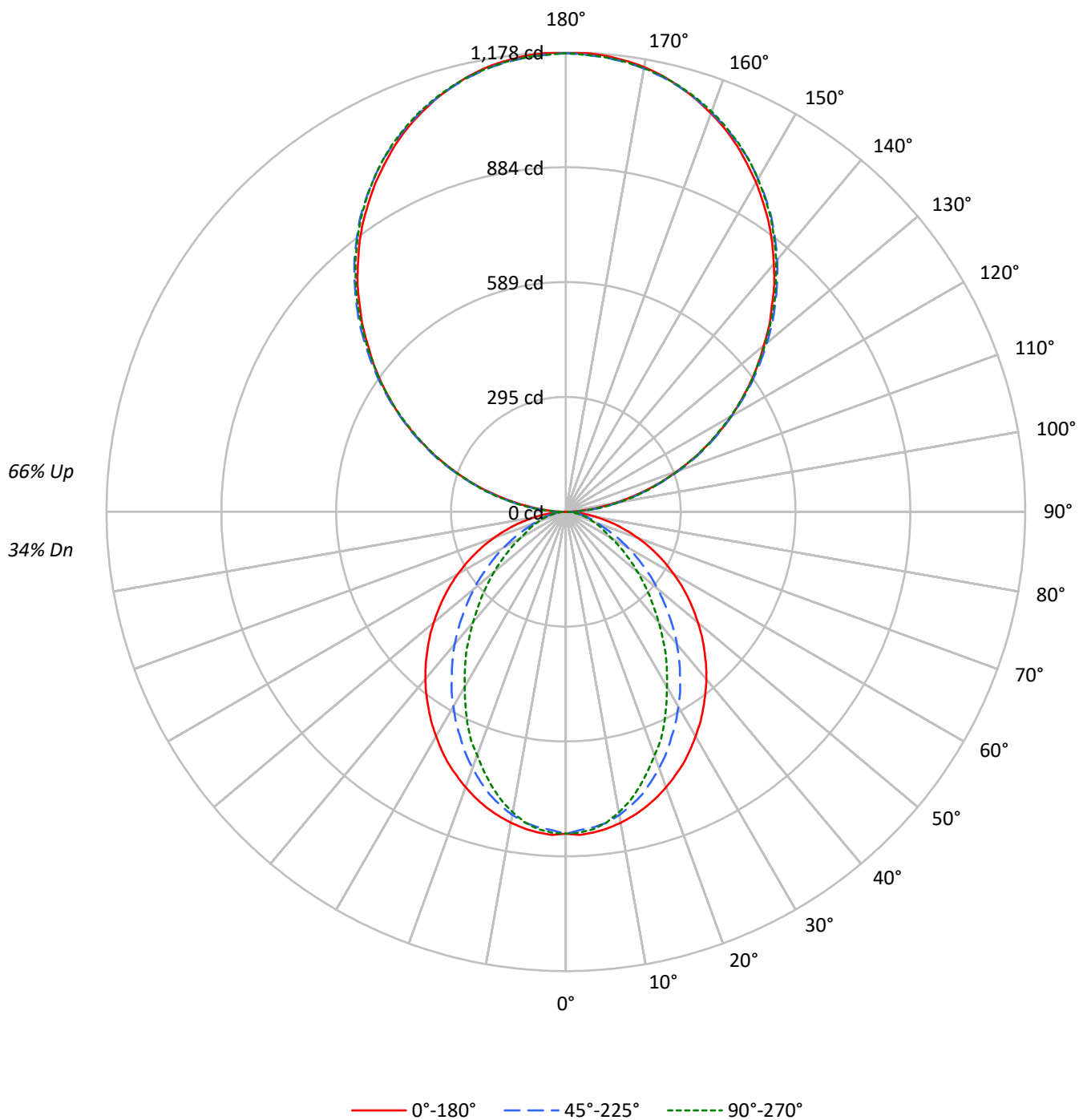
Lumens per Lamp: N/A
Luminaire Lumens: 4989.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P999849

CATALOG NUMBER: SA2XXRDIP-B485D925UB35-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P999849

CATALOG NUMBER: SA2XXRDIP-B485D925UB35-4F0-XX-W2A-F1

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	93	93	93	93	75	75	75	57	57	57	42	42	42
1	95	90	87	83	85	82	79	76	66	64	62	51	49	48	37	36	36
2	86	79	74	69	78	72	67	63	58	54	52	45	43	41	33	32	30
3	79	70	63	57	71	63	58	53	51	47	44	40	37	35	30	28	26
4	72	62	55	49	65	56	50	45	46	41	37	36	33	30	27	25	23
5	66	55	48	42	60	50	44	39	41	36	32	32	29	26	24	22	20
6	61	50	42	36	55	45	39	34	37	32	28	29	26	23	22	20	18
7	57	45	37	32	51	41	34	30	34	29	25	27	23	20	20	18	16
8	52	41	33	28	47	37	31	26	31	26	22	24	21	18	19	16	14
9	49	37	30	25	44	34	28	23	28	23	20	22	19	16	17	15	13
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13069	13069	13069
5°	13090	12434	12342
10°	12961	11793	11403
15°	12784	11036	10334
20°	12548	10176	9216
25°	12306	9292	8192
30°	11982	8432	7075
35°	11665	7564	6115
40°	11342	6713	5127
45°	10966	5834	4265
50°	10577	4986	3472
55°	10174	4138	2757
60°	9704	3310	2086
65°	9165	2523	1696
70°	8510	1831	1348
75°	7692	1397	1030
80°	6499	946	692
85°	4534	433	334

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10966 cd/sqm

TEST NUMBER: P999849

CATALOG NUMBER: SA2XXRDIP-B485D925UB35-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	1.6
10°-20°	212.4	4.3
20°-30°	298.2	6.0
30°-40°	325.1	6.5
40°-50°	298.8	6.0
50°-60°	234.7	4.7
60°-70°	152.7	3.1
70°-80°	78.6	1.6
80°-90°	23.4	0.5
90°-100°	72.7	1.5
100°-110°	231.3	4.6
110°-120°	395.7	7.9
120°-130°	520.4	10.4
130°-140°	584.1	11.7
140°-150°	572.8	11.5
150°-160°	480.5	9.6
160°-170°	318.7	6.4
170°-180°	111.4	2.2
0°-30°	588.0	11.8
0°-40°	913.1	18.3
0°-60°	1446.5	29.0
0°-90°	1701.4	34.1
90°-120°	699.7	14.0
90°-150°	2377.1	47.6
90°-180°	3288.0	65.9
0°-180°	4989.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	826	826	826	826	826	
5°	826	822	812	819	817	78
15°	785	777	752	738	730	221
25°	713	689	640	609	598	328
35°	614	576	510	463	447	384
45°	502	452	374	320	303	388
55°	382	324	243	198	184	341
65°	258	197	130	105	102	256
75°	138	85	60	54	54	145
85°	32	16	14	14	14	37
90°	1	13	35	33	34	5
95°	52	62	64	64	62	58
105°	213	216	218	220	220	225
115°	397	403	401	400	397	393
125°	578	586	584	580	580	516
135°	747	758	760	759	756	577
145°	907	914	920	921	917	567
155°	1037	1040	1043	1048	1045	477
165°	1128	1127	1127	1134	1129	318
175°	1174	1171	1169	1176	1170	112
180°	1176	1176	1176	1176	1176	

TEST NUMBER: P999849

CATALOG NUMBER: SA2XXRDIP-B485D925UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	825.6	825.6	825.6	825.6	825.6
2.5°	829.4	825.6	817.4	824.9	823.4
5°	825.6	821.9	812.2	818.9	816.7
7.5°	818.9	814.4	804.0	806.9	803.2
10°	809.9	804.7	789.8	787.5	783.0
12.5°	798.7	792.0	771.8	767.3	759.1
15°	785.3	777.1	751.7	737.5	730.0
17.5°	769.6	757.6	726.2	709.8	697.9
20°	751.7	736.7	699.4	680.7	664.2
22.5°	732.2	715.0	671.7	646.3	635.1
25°	712.8	688.9	639.6	608.9	597.7
27.5°	689.6	664.2	609.7	574.6	557.4
30°	665.0	636.6	576.8	538.7	518.5
32.5°	641.1	606.7	545.4	500.6	481.9
35°	614.2	576.1	510.3	463.2	446.8
37.5°	588.0	546.9	477.4	425.9	407.2
40°	560.4	515.5	443.1	390.0	370.6
42.5°	532.0	484.2	408.7	353.4	334.7
45°	502.1	452.0	373.6	320.5	302.6
47.5°	473.7	420.7	340.0	286.9	270.5
50°	442.3	389.3	307.1	255.5	239.8
52.5°	411.7	355.7	275.7	226.4	212.2
55°	381.8	323.5	242.8	198.0	183.8
57.5°	351.2	291.4	213.7	171.8	159.9
60°	319.8	260.0	183.1	145.0	133.0
62.5°	289.2	229.4	156.9	121.0	115.1
65°	257.8	197.3	130.0	104.6	102.4
67.5°	227.9	167.4	104.6	91.9	89.7
70°	196.5	138.2	86.7	79.2	76.2
72.5°	166.6	111.3	72.5	66.5	65.0
75°	137.5	85.2	59.8	54.5	53.8
77.5°	108.3	60.5	47.1	44.1	42.6
80°	81.4	43.3	35.9	32.9	32.9
82.5°	56.8	29.1	24.7	23.2	23.2
85°	32.1	16.4	14.2	14.2	14.2
87.5°	12.0	6.0	6.0	5.2	5.2
90°	1.0	12.9	34.7	32.7	33.7
92.5°	21.8	29.8	30.8	31.8	31.8
95°	51.6	61.5	63.5	63.5	61.5
97.5°	86.3	95.3	99.2	99.2	99.2
100°	126.0	134.0	136.9	136.9	136.0
102.5°	167.7	173.7	177.6	178.6	177.6
105°	213.4	216.3	218.3	220.3	220.3
107.5°	259.0	263.0	263.0	264.0	259.0
110°	302.7	308.6	308.6	308.6	305.6

TEST NUMBER: P999849

CATALOG NUMBER: SA2XXRDIP-B485D925UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	350.3	356.2	355.3	352.3	350.3
115°	396.9	402.9	400.9	399.9	396.9
117.5°	443.6	451.5	446.6	443.6	440.6
120°	490.2	498.2	490.2	490.2	487.2
122.5°	532.9	542.8	537.8	534.9	532.9
125°	577.5	586.5	583.5	580.5	579.5
127.5°	621.2	632.1	628.2	624.2	621.2
130°	661.9	674.8	672.8	670.8	666.9
132.5°	707.5	717.5	718.5	713.5	710.5
135°	747.2	758.1	760.1	759.1	756.2
137.5°	790.9	799.8	801.8	800.8	796.8
140°	829.6	838.5	843.5	843.5	839.5
142.5°	869.3	878.2	881.2	882.2	878.2
145°	907.0	913.9	919.9	920.9	916.9
147.5°	940.7	949.7	953.6	955.6	951.7
150°	975.5	981.4	985.4	988.4	985.4
152.5°	1006.2	1012.2	1017.1	1021.1	1017.1
155°	1037.0	1040.0	1042.9	1047.9	1044.9
157.5°	1063.8	1065.8	1067.8	1074.7	1069.7
160°	1087.6	1089.6	1090.6	1096.5	1092.6
162.5°	1109.4	1109.4	1110.4	1117.4	1112.4
165°	1128.3	1127.3	1127.3	1134.2	1129.3
167.5°	1145.2	1142.2	1142.2	1149.1	1144.2
170°	1158.1	1155.1	1154.1	1161.0	1155.1
172.5°	1167.0	1164.0	1163.0	1170.0	1164.0
175°	1173.9	1171.0	1169.0	1175.9	1170.0
177.5°	1177.9	1174.9	1172.9	1178.9	1172.9
180°	1175.9	1175.9	1175.9	1175.9	1175.9

(END OF REPORT)