

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: P999669

Luminaire Tested: SA2XXRDIP-B485D1080UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999669
REPORT IS A COMBINATION OF REPORTS P988222 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B485D1080UB27-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

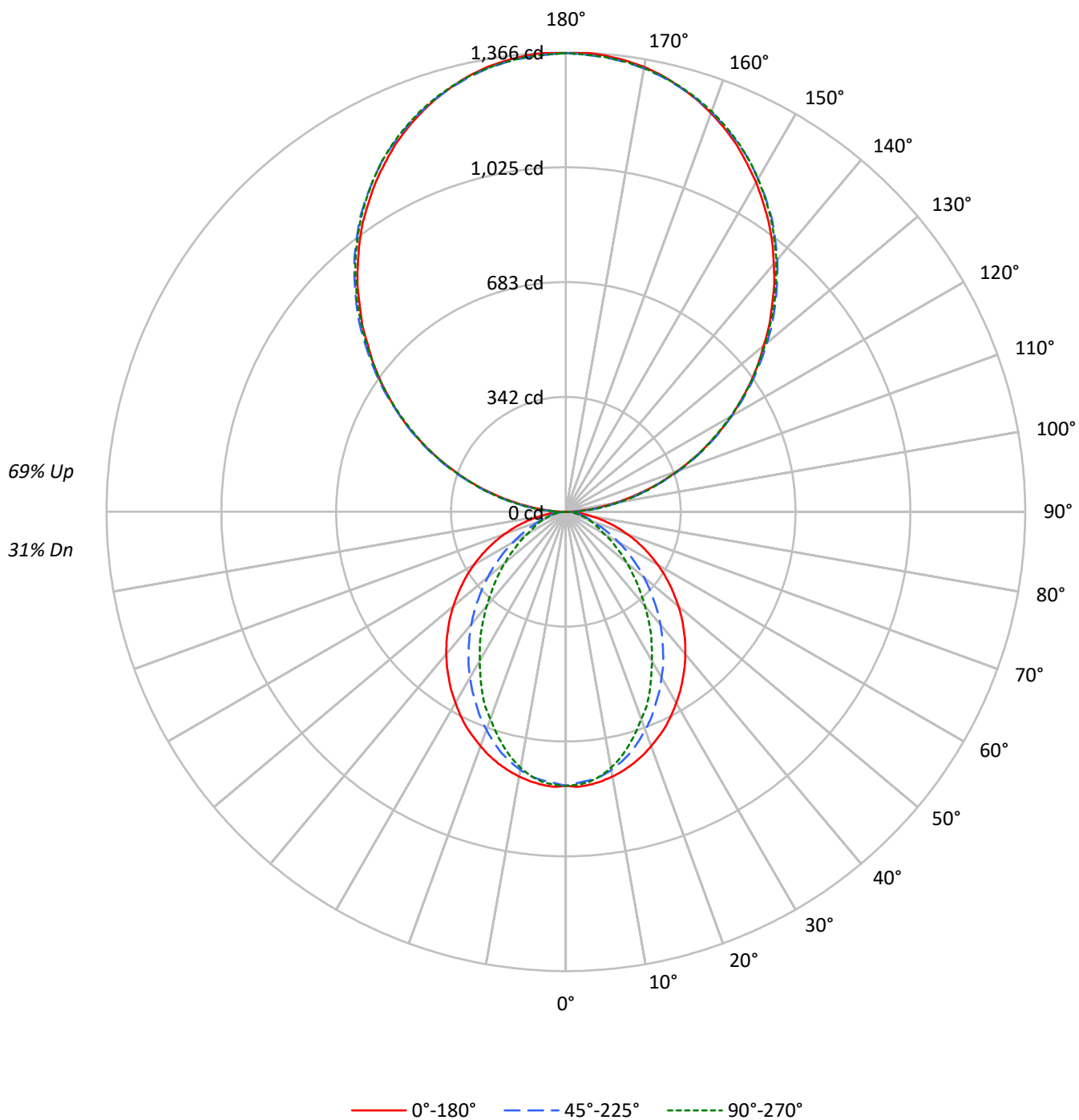
Lumens per Lamp: N/A
Luminaire Lumens: 5493.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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: P999669

CATALOG NUMBER: SA2XXRDIP-B485D1080UB27-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P999669

CATALOG NUMBER: SA2XXRDIP-B485D1080UB27-4F0-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	92	92	92	92	73	73	73	55	55	55	38	38	38
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33
2	86	79	73	68	77	71	66	62	56	53	50	43	41	39	30	29	28
3	78	69	62	57	70	63	57	52	50	46	42	38	35	33	27	26	24
4	72	61	54	48	64	56	49	44	44	40	36	34	31	29	25	23	21
5	66	55	47	41	59	50	43	38	40	35	31	31	27	25	22	20	19
6	61	49	41	36	54	44	38	33	36	31	27	28	24	22	20	18	16
7	56	44	37	31	50	40	34	29	33	28	24	25	22	19	19	16	15
8	52	40	33	28	47	37	30	26	30	25	21	23	20	17	17	15	13
9	48	37	29	25	43	33	27	23	27	22	19	21	18	16	16	14	12
10	45	33	27	22	41	31	24	20	25	20	17	20	16	14	15	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12899	12899	12899
5°	12920	12273	12182
10°	12793	11639	11256
15°	12618	10892	10200
20°	12385	10043	9096
25°	12147	9172	8087
30°	11827	8322	6983
35°	11513	7466	6036
40°	11194	6626	5061
45°	10824	5757	4210
50°	10441	4921	3427
55°	10043	4085	2721
60°	9577	3267	2059
65°	9044	2490	1673
70°	8402	1806	1330
75°	7591	1378	1016
80°	6419	933	681
85°	4478	427	329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10824 cd/sqm

TEST NUMBER: P999669

CATALOG NUMBER: SA2XXRDIP-B485D1080UB27-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	1.4
10°-20°	209.7	3.8
20°-30°	294.4	5.4
30°-40°	320.9	5.8
40°-50°	294.9	5.4
50°-60°	231.6	4.2
60°-70°	150.7	2.7
70°-80°	77.6	1.4
80°-90°	23.7	0.4
90°-100°	84.4	1.5
100°-110°	268.2	4.9
110°-120°	458.9	8.4
120°-130°	603.6	11.0
130°-140°	677.5	12.3
140°-150°	664.4	12.1
150°-160°	557.3	10.1
160°-170°	369.6	6.7
170°-180°	129.2	2.4
0°-30°	580.4	10.6
0°-40°	901.3	16.4
0°-60°	1427.8	26.0
0°-90°	1679.9	30.6
90°-120°	811.5	14.8
90°-150°	2757.0	50.2
90°-180°	3813.0	69.4
0°-180°	5493.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	815	815	815	815	815	
5°	815	811	802	808	806	77
15°	775	767	742	728	720	218
25°	704	680	631	601	590	324
35°	606	569	504	457	441	379
45°	496	446	369	316	299	383
55°	377	319	240	195	181	337
65°	254	195	128	103	101	252
75°	136	84	59	54	53	144
85°	32	16	14	14	14	36
90°	1	15	40	38	39	5
95°	60	71	74	74	71	67
105°	248	251	253	256	256	261
115°	460	467	465	464	460	455
125°	670	680	677	673	672	599
135°	867	879	882	880	877	670
145°	1052	1060	1067	1068	1064	657
155°	1203	1206	1210	1215	1212	554
165°	1309	1308	1308	1316	1310	369
175°	1362	1358	1356	1364	1357	129
180°	1364	1364	1364	1364	1364	

TEST NUMBER: P999669

CATALOG NUMBER: SA2XXRDIP-B485D1080UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	814.9	814.9	814.9	814.9	814.9
2.5°	818.6	814.9	806.8	814.2	812.7
5°	814.9	811.2	801.7	808.3	806.1
7.5°	808.3	803.9	793.5	796.5	792.8
10°	799.4	794.3	779.5	777.3	772.9
12.5°	788.4	781.7	761.8	757.4	749.3
15°	775.1	767.0	741.9	727.9	720.5
17.5°	759.6	747.8	716.8	700.6	688.8
20°	741.9	727.2	690.3	671.9	655.6
22.5°	722.7	705.8	663.0	637.9	626.9
25°	703.6	680.0	631.3	601.1	590.0
27.5°	680.7	655.6	601.8	567.1	550.2
30°	656.4	628.3	569.3	531.7	511.8
32.5°	632.8	598.8	538.4	494.1	475.7
35°	606.2	568.6	503.7	457.2	441.0
37.5°	580.4	539.8	471.3	420.4	401.9
40°	553.1	508.9	437.3	385.0	365.8
42.5°	525.1	477.9	403.4	348.8	330.4
45°	495.6	446.2	368.7	316.4	298.7
47.5°	467.6	415.2	335.6	283.2	267.0
50°	436.6	384.2	303.1	252.2	236.7
52.5°	406.4	351.0	272.1	223.5	209.4
55°	376.9	319.3	239.7	195.4	181.4
57.5°	346.6	287.6	210.9	169.6	157.8
60°	315.6	256.6	180.7	143.1	131.3
62.5°	285.4	226.4	154.9	119.5	113.6
65°	254.4	194.7	128.3	103.2	101.0
67.5°	224.9	165.2	103.2	90.7	88.5
70°	194.0	136.4	85.5	78.2	75.2
72.5°	164.5	109.9	71.5	65.6	64.2
75°	135.7	84.1	59.0	53.8	53.1
77.5°	106.9	59.7	46.5	43.5	42.0
80°	80.4	42.8	35.4	32.4	32.4
82.5°	56.0	28.8	24.3	22.9	22.9
85°	31.7	16.2	14.0	14.0	14.0
87.5°	11.8	5.9	5.9	5.2	5.2
90°	1.2	15.0	40.3	38.0	39.1
92.5°	25.3	34.5	35.7	36.8	36.8
95°	59.8	71.4	73.7	73.7	71.4
97.5°	100.1	110.5	115.1	115.1	115.1
100°	146.2	155.4	158.8	158.8	157.7
102.5°	194.5	201.4	206.0	207.2	206.0
105°	247.5	250.9	253.2	255.5	255.5
107.5°	300.4	305.0	305.0	306.2	300.4
110°	351.0	357.9	357.9	357.9	354.5

TEST NUMBER: P999669

CATALOG NUMBER: SA2XXRDIP-B485D1080UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	406.3	413.2	412.0	408.6	406.3
115°	460.4	467.3	465.0	463.8	460.4
117.5°	514.5	523.7	517.9	514.5	511.0
120°	568.6	577.8	568.6	568.6	565.1
122.5°	618.1	629.6	623.8	620.4	618.1
125°	669.8	680.2	676.8	673.3	672.2
127.5°	720.5	733.2	728.5	723.9	720.5
130°	767.7	782.6	780.3	778.0	773.4
132.5°	820.6	832.1	833.3	827.5	824.1
135°	866.7	879.3	881.6	880.5	877.0
137.5°	917.3	927.7	930.0	928.8	924.2
140°	962.2	972.5	978.3	978.3	973.7
142.5°	1008.2	1018.6	1022.0	1023.2	1018.6
145°	1052.0	1060.0	1066.9	1068.1	1063.5
147.5°	1091.1	1101.5	1106.1	1108.4	1103.8
150°	1131.4	1138.3	1142.9	1146.3	1142.9
152.5°	1167.1	1174.0	1179.7	1184.3	1179.7
155°	1202.7	1206.2	1209.6	1215.4	1211.9
157.5°	1233.8	1236.1	1238.4	1246.5	1240.7
160°	1261.4	1263.7	1264.9	1271.8	1267.2
162.5°	1286.8	1286.8	1287.9	1296.0	1290.2
165°	1308.6	1307.5	1307.5	1315.5	1309.8
167.5°	1328.2	1324.7	1324.7	1332.8	1327.0
170°	1343.2	1339.7	1338.5	1346.6	1339.7
172.5°	1353.5	1350.1	1348.9	1357.0	1350.1
175°	1361.6	1358.1	1355.8	1363.9	1357.0
177.5°	1366.2	1362.7	1360.4	1367.3	1360.4
180°	1363.9	1363.9	1363.9	1363.9	1363.9

(END OF REPORT)