

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: P999686

Luminaire Tested: SA2XXRDIP-B485D1080UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999686
REPORT IS A COMBINATION OF REPORTS P988239 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B485D1080UB30-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

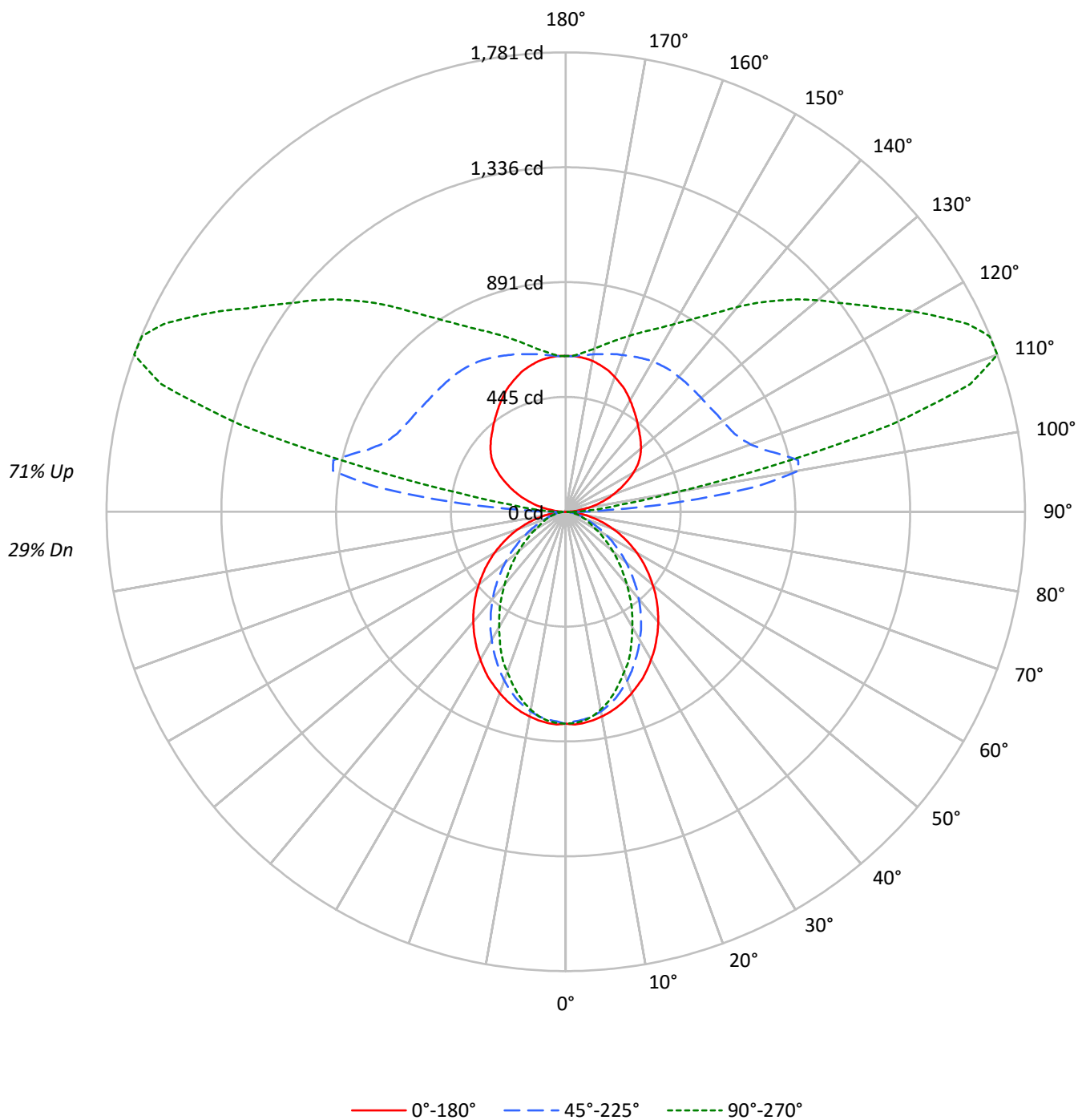
Lumens per Lamp: N/A
Luminaire Lumens: 5902.8 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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

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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	71	71	71	53	53	53	37	37	37
1	93	89	86	82	83	80	77	74	63	61	59	47	46	45	33	32	31
2	85	78	72	68	76	70	65	61	55	52	49	42	40	38	29	28	27
3	78	69	62	56	69	62	56	51	49	45	42	37	34	32	26	24	23
4	71	61	54	48	64	55	49	44	44	39	36	33	30	28	23	22	20
5	65	54	47	41	58	49	43	38	39	34	31	30	27	24	21	19	18
6	60	49	41	36	54	44	37	33	35	30	27	27	24	21	19	17	16
7	56	44	36	31	50	40	33	29	32	27	24	25	21	19	18	16	14
8	52	40	32	27	46	36	30	25	29	24	21	22	19	17	16	14	13
9	48	36	29	24	43	33	27	22	27	22	19	21	17	15	15	13	11
10	45	33	26	22	40	30	24	20	24	20	17	19	16	14	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13007	13007	13007
5°	13028	12374	12283
10°	12900	11736	11349
15°	12723	10983	10285
20°	12488	10128	9173
25°	12247	9249	8154
30°	11924	8392	7042
35°	11610	7529	6086
40°	11287	6682	5104
45°	10913	5806	4245
50°	10527	4962	3456
55°	10126	4119	2743
60°	9659	3294	2076
65°	9122	2511	1688
70°	8471	1823	1343
75°	7653	1390	1024
80°	6475	941	687
85°	4520	430	332

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10913 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	1.3
10°-20°	211.4	3.6
20°-30°	296.8	5.0
30°-40°	323.6	5.5
40°-50°	297.4	5.0
50°-60°	233.5	4.0
60°-70°	152.0	2.6
70°-80°	78.3	1.3
80°-90°	23.8	0.4
90°-100°	244.7	4.1
100°-110°	827.3	14.0
110°-120°	869.6	14.7
120°-130°	715.1	12.1
130°-140°	574.7	9.7
140°-150°	434.1	7.4
150°-160°	305.2	5.2
160°-170°	179.7	3.0
170°-180°	58.5	1.0
0°-30°	585.3	9.9
0°-40°	908.8	15.4
0°-60°	1439.7	24.4
0°-90°	1693.9	28.7
90°-120°	1941.7	32.9
90°-150°	3665.6	62.1
90°-180°	4209.0	71.3
0°-180°	5902.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	822	822	822	822	822	
5°	822	818	808	815	813	78
15°	782	773	748	734	726	220
25°	709	686	637	606	595	326
35°	611	573	508	461	445	383
45°	500	450	372	319	301	386
55°	380	322	242	197	183	340
65°	257	196	129	104	102	254
75°	137	85	60	54	54	145
85°	32	16	14	14	14	37
90°	1	16	40	38	38	4
95°	41	100	455	172	132	42
105°	142	214	860	1538	1308	150
115°	250	315	720	1485	1722	248
125°	348	412	692	1203	1397	310
135°	409	488	684	1011	1158	316
145°	467	536	680	845	924	293
155°	531	573	661	747	777	244
165°	578	596	633	671	682	163
175°	602	603	608	616	614	57
180°	604	604	604	604	604	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	821.7	821.7	821.7	821.7	821.7
2.5°	825.5	821.7	813.6	821.0	819.5
5°	821.7	818.0	808.3	815.0	812.8
7.5°	815.0	810.6	800.2	803.1	799.4
10°	806.1	800.9	786.0	783.8	779.3
12.5°	795.0	788.3	768.2	763.7	755.5
15°	781.6	773.4	748.1	734.0	726.5
17.5°	766.0	754.1	722.8	706.5	694.6
20°	748.1	733.2	696.1	677.5	661.1
22.5°	728.8	711.7	668.5	643.3	632.1
25°	709.4	685.6	636.6	606.1	594.9
27.5°	686.4	661.1	606.8	571.9	554.8
30°	661.8	633.6	574.1	536.2	516.1
32.5°	638.1	603.8	542.9	498.2	479.7
35°	611.3	573.4	507.9	461.1	444.7
37.5°	585.3	544.4	475.2	423.9	405.3
40°	557.7	513.1	441.0	388.2	368.9
42.5°	529.5	481.9	406.8	351.7	333.2
45°	499.7	449.9	371.8	319.0	301.2
47.5°	471.5	418.7	338.4	285.6	269.2
50°	440.2	387.4	305.6	254.3	238.7
52.5°	409.8	354.0	274.4	225.3	211.2
55°	380.0	322.0	241.7	197.1	182.9
57.5°	349.5	290.0	212.7	171.0	159.1
60°	318.3	258.8	182.2	144.3	132.4
62.5°	287.8	228.3	156.2	120.5	114.5
65°	256.6	196.3	129.4	104.1	101.9
67.5°	226.8	166.6	104.1	91.5	89.2
70°	195.6	137.6	86.3	78.8	75.9
72.5°	165.8	110.8	72.1	66.2	64.7
75°	136.8	84.8	59.5	54.3	53.5
77.5°	107.8	60.2	46.8	43.9	42.4
80°	81.1	43.1	35.7	32.7	32.7
82.5°	56.5	29.0	24.5	23.1	23.1
85°	32.0	16.4	14.1	14.1	14.1
87.5°	11.9	5.9	5.9	5.2	5.2
90°	1.2	15.6	39.5	37.8	38.3
92.5°	17.4	55.2	178.8	82.4	70.8
95°	40.6	99.8	455.1	171.8	132.3
97.5°	60.4	131.8	741.8	344.8	221.7
100°	89.4	161.4	917.1	686.7	415.6
102.5°	116.1	188.0	923.0	1161.0	810.3
105°	141.6	213.6	860.3	1537.6	1308.4
107.5°	169.5	239.2	802.2	1674.1	1643.9
110°	197.4	265.2	762.7	1652.0	1780.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	222.9	290.2	737.2	1577.1	1778.6
115°	249.6	315.2	719.8	1485.4	1721.7
117.5°	277.5	340.2	710.5	1397.8	1635.8
120°	303.0	364.6	702.4	1319.4	1553.3
122.5°	327.4	389.5	697.7	1258.4	1467.4
125°	348.3	412.2	691.9	1203.4	1396.6
127.5°	365.7	433.6	688.4	1156.3	1330.4
130°	380.8	452.8	686.1	1108.7	1275.9
132.5°	394.7	471.4	685.0	1059.4	1219.0
135°	408.7	487.6	683.8	1011.2	1157.5
137.5°	421.4	501.5	683.8	962.4	1098.3
140°	436.5	514.3	682.6	919.4	1036.7
142.5°	451.6	524.8	682.6	878.2	975.2
145°	466.7	536.4	680.3	844.6	924.1
147.5°	483.0	545.6	676.8	815.0	878.8
150°	499.2	555.0	673.3	789.4	839.4
152.5°	515.5	564.2	667.5	768.0	805.7
155°	530.6	572.9	660.6	747.1	776.7
157.5°	543.3	579.8	653.6	727.4	751.1
160°	556.1	586.8	646.6	707.6	726.8
162.5°	568.9	592.0	640.8	689.0	703.5
165°	578.2	595.6	632.7	671.0	681.5
167.5°	586.3	599.0	625.7	654.8	660.6
170°	594.4	600.8	619.9	639.6	642.0
172.5°	599.0	602.6	613.0	626.3	626.9
175°	602.5	603.1	608.3	615.9	614.1
177.5°	604.9	603.7	603.7	608.3	604.9
180°	603.7	603.7	603.7	603.7	603.7

(END OF REPORT)