

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: P999821

Luminaire Tested: SA2XXRDIP-B485D725UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999821
REPORT IS A COMBINATION OF REPORTS P988376 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B485D725UB50-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

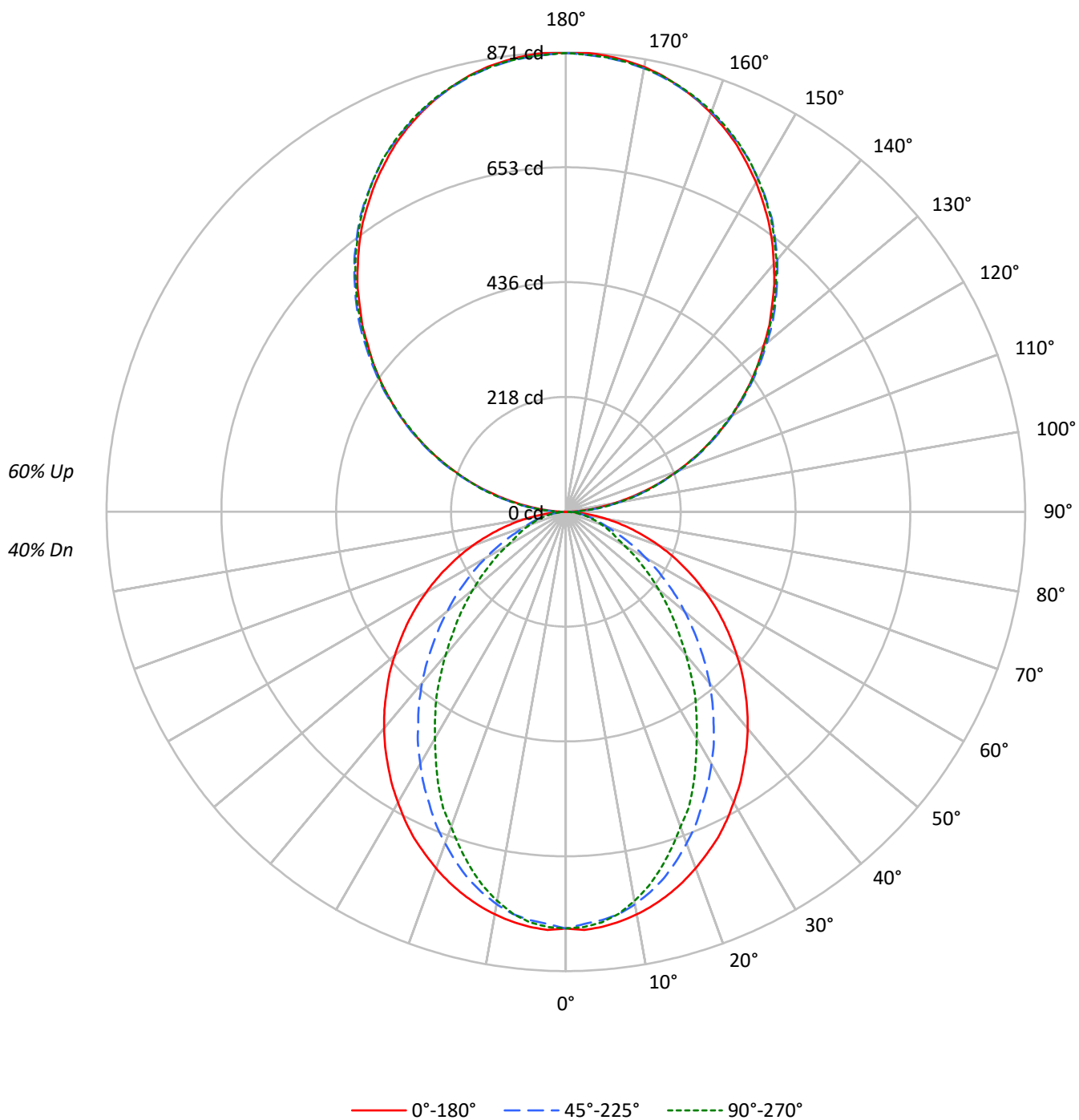
Lumens per Lamp: N/A
Luminaire Lumens: 4059.0 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47
1	96	92	88	85	87	84	81	78	69	67	65	55	53	52	42	41	40
2	88	81	75	70	80	74	69	64	61	57	54	49	46	44	38	36	35
3	80	71	64	59	73	65	59	54	54	49	46	43	40	38	34	32	30
4	74	63	56	50	67	58	51	46	48	43	39	39	35	33	30	28	26
5	68	56	49	43	61	52	45	40	43	38	34	35	31	28	27	25	23
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	22	20
7	58	46	38	33	52	42	35	31	35	30	26	29	25	22	23	20	18
8	54	42	34	29	49	38	32	27	32	27	24	27	23	20	21	18	16
9	50	38	31	26	45	35	29	24	30	25	21	24	21	18	20	17	15
10	47	35	28	23	43	32	26	22	27	22	19	23	19	16	18	16	14

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	1.8
10°-20°	203.3	5.0
20°-30°	285.4	7.0
30°-40°	311.1	7.7
40°-50°	285.9	7.0
50°-60°	224.6	5.5
60°-70°	146.2	3.6
70°-80°	75.2	1.9
80°-90°	21.7	0.5
90°-100°	53.8	1.3
100°-110°	171.0	4.2
110°-120°	292.7	7.2
120°-130°	384.9	9.5
130°-140°	432.0	10.6
140°-150°	423.7	10.4
150°-160°	355.4	8.8
160°-170°	235.7	5.8
170°-180°	82.4	2.0
0°-30°	562.8	13.9
0°-40°	873.9	21.5
0°-60°	1384.4	34.1
0°-90°	1627.5	40.1
90°-120°	517.5	12.7
90°-150°	1758.1	43.3
90°-180°	2432.0	59.9
0°-180°	4059.0	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	26	24	25	4
95°	38	46	47	47	46	43
105°	158	160	162	163	163	167
115°	294	298	296	296	294	290
125°	427	434	432	429	429	382
135°	553	561	562	562	559	427
145°	671	676	680	681	678	419
155°	767	769	771	775	773	353
165°	834	834	834	839	835	235
175°	868	866	865	870	865	82
180°	870	870	870	870	870	

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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°	0.7	9.5	25.7	24.2	25.0
92.5°	16.1	22.0	22.8	23.5	23.5
95°	38.2	45.5	47.0	47.0	45.5
97.5°	63.9	70.5	73.4	73.4	73.4
100°	93.2	99.1	101.3	101.3	100.5
102.5°	124.0	128.4	131.4	132.1	131.4
105°	157.8	160.0	161.5	162.9	162.9
107.5°	191.6	194.5	194.5	195.2	191.6
110°	223.8	228.3	228.3	228.3	226.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	259.1	263.5	262.7	260.5	259.1
115°	293.6	298.0	296.5	295.8	293.6
117.5°	328.1	333.9	330.3	328.1	325.9
120°	362.6	368.4	362.6	362.6	360.4
122.5°	394.1	401.5	397.8	395.6	394.1
125°	427.1	433.8	431.5	429.3	428.6
127.5°	459.4	467.5	464.6	461.6	459.4
130°	489.5	499.1	497.6	496.1	493.2
132.5°	523.3	530.6	531.4	527.7	525.5
135°	552.6	560.7	562.2	561.5	559.3
137.5°	584.9	591.5	593.0	592.3	589.3
140°	613.6	620.2	623.8	623.8	620.9
142.5°	642.9	649.5	651.7	652.5	649.5
145°	670.8	675.9	680.4	681.1	678.1
147.5°	695.8	702.4	705.3	706.8	703.8
150°	721.4	725.9	728.8	731.0	728.8
152.5°	744.2	748.6	752.3	755.2	752.3
155°	767.0	769.2	771.4	775.0	772.8
157.5°	786.8	788.2	789.7	794.8	791.2
160°	804.4	805.9	806.6	811.0	808.1
162.5°	820.5	820.5	821.3	826.4	822.7
165°	834.5	833.7	833.7	838.9	835.2
167.5°	847.0	844.7	844.7	849.9	846.2
170°	856.5	854.3	853.6	858.7	854.3
172.5°	863.1	860.9	860.2	865.3	860.9
175°	868.2	866.0	864.6	869.7	865.3
177.5°	871.2	869.0	867.5	871.9	867.5
180°	869.7	869.7	869.7	869.7	869.7

(END OF REPORT)