

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: P999741

Luminaire Tested: SA2XXRDIP-B485D330UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999741
REPORT IS A COMBINATION OF REPORTS P988296 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B485D330UB50-4F0-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

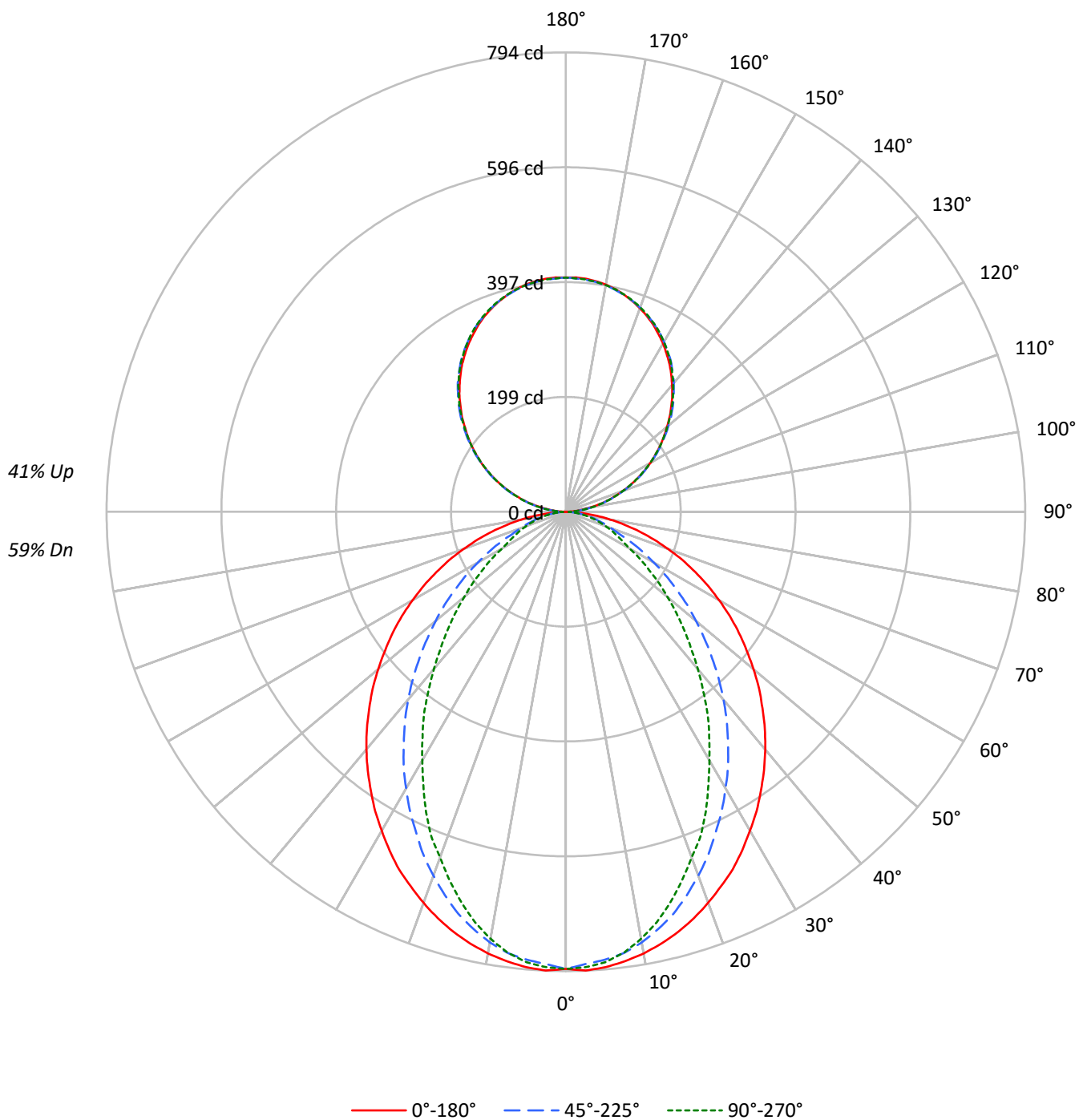
Lumens per Lamp: N/A
Luminaire Lumens: 2758.0 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 33.3
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64
1	100	96	92	89	94	90	87	84	78	76	74	68	66	64	58	57	55
2	92	85	79	74	86	79	74	70	69	65	62	60	57	55	52	49	48
3	84	75	68	62	78	70	64	59	62	57	53	54	50	47	46	43	41
4	77	67	59	53	72	63	56	51	55	50	46	48	44	41	42	39	36
5	71	60	52	46	66	56	49	44	50	44	40	44	39	36	38	34	32
6	66	54	46	40	61	51	44	38	45	39	35	40	35	32	35	31	28
7	61	49	41	36	57	46	39	34	41	35	31	36	32	28	32	28	25
8	57	45	37	32	53	42	35	30	38	32	28	33	29	25	29	26	23
9	53	41	34	29	50	39	32	27	35	29	25	31	26	23	27	23	21
10	50	38	31	26	46	36	29	25	32	27	23	29	24	21	25	22	19

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	2.7
10°-20°	203.3	7.4
20°-30°	285.4	10.3
30°-40°	311.1	11.3
40°-50°	285.9	10.4
50°-60°	224.6	8.1
60°-70°	146.2	5.3
70°-80°	75.2	2.7
80°-90°	20.4	0.7
90°-100°	25.0	0.9
100°-110°	79.6	2.9
110°-120°	136.2	4.9
120°-130°	179.2	6.5
130°-140°	201.1	7.3
140°-150°	197.2	7.2
150°-160°	165.4	6.0
160°-170°	109.7	4.0
170°-180°	38.3	1.4
0°-30°	562.8	20.4
0°-40°	873.9	31.7
0°-60°	1384.4	50.2
0°-90°	1626.2	59.0
90°-120°	240.9	8.7
90°-150°	818.4	29.7
90°-180°	1132.0	41.0
0°-180°	2758.0	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°	0	4	12	11	12	3
95°	18	21	22	22	21	20
105°	74	74	75	76	76	78
115°	137	139	138	138	137	135
125°	199	202	201	200	200	178
135°	257	261	262	261	260	199
145°	312	315	317	317	316	195
155°	357	358	359	361	360	164
165°	388	388	388	390	389	110
175°	404	403	402	405	403	38
180°	405	405	405	405	405	

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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°	0.3	4.4	12.0	11.3	11.6
92.5°	7.5	10.2	10.6	10.9	10.9
95°	17.8	21.2	21.9	21.9	21.2
97.5°	29.7	32.8	34.2	34.2	34.2
100°	43.4	46.1	47.1	47.1	46.8
102.5°	57.7	59.8	61.2	61.5	61.2
105°	73.5	74.5	75.2	75.8	75.8
107.5°	89.2	90.5	90.5	90.9	89.2
110°	104.2	106.2	106.2	106.2	105.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	120.6	122.6	122.3	121.3	120.6
115°	136.7	138.7	138.0	137.7	136.7
117.5°	152.7	155.4	153.7	152.7	151.7
120°	168.8	171.5	168.8	168.8	167.7
122.5°	183.5	186.9	185.2	184.1	183.5
125°	198.8	201.9	200.9	199.9	199.5
127.5°	213.9	217.6	216.3	214.9	213.9
130°	227.9	232.3	231.6	230.9	229.6
132.5°	243.6	247.0	247.3	245.6	244.6
135°	257.3	261.0	261.7	261.4	260.3
137.5°	272.3	275.4	276.0	275.7	274.3
140°	285.6	288.7	290.4	290.4	289.0
142.5°	299.3	302.3	303.4	303.7	302.3
145°	312.3	314.6	316.7	317.0	315.7
147.5°	323.9	326.9	328.3	329.0	327.6
150°	335.8	337.9	339.2	340.3	339.2
152.5°	346.4	348.5	350.2	351.5	350.2
155°	357.0	358.0	359.1	360.8	359.7
157.5°	366.2	366.9	367.6	370.0	368.3
160°	374.4	375.1	375.5	377.5	376.1
162.5°	381.9	381.9	382.3	384.7	383.0
165°	388.4	388.1	388.1	390.5	388.8
167.5°	394.2	393.2	393.2	395.6	393.9
170°	398.7	397.7	397.3	399.7	397.7
172.5°	401.8	400.7	400.4	402.8	400.7
175°	404.2	403.1	402.4	404.8	402.8
177.5°	405.5	404.5	403.8	405.9	403.8
180°	404.8	404.8	404.8	404.8	404.8

(END OF REPORT)