

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: P999728

Luminaire Tested: SA2XXRDIP-B485D330UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999728
REPORT IS A COMBINATION OF REPORTS P988283 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B485D330UB35-4F0-XX-W2A-F
Description: Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

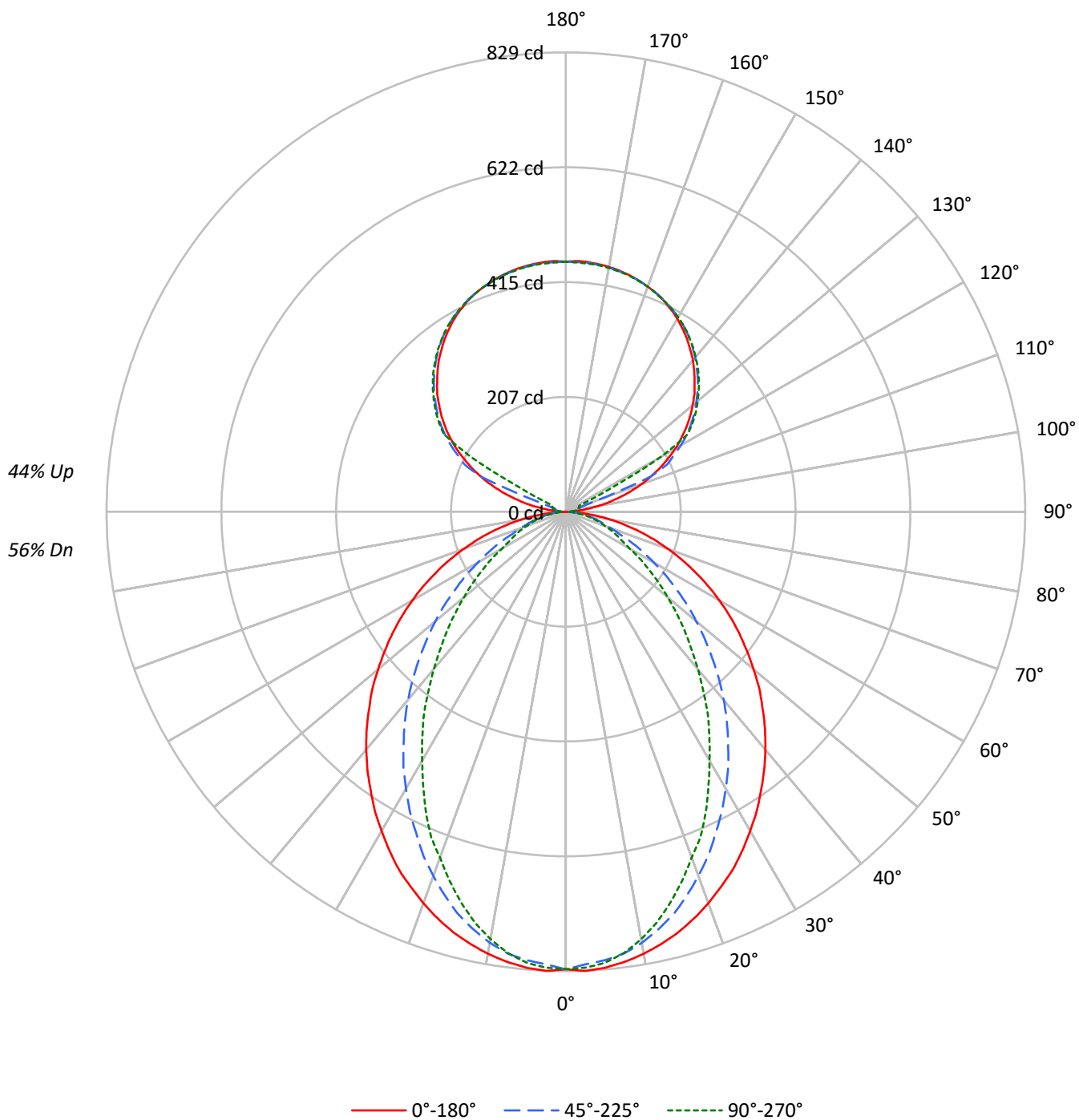
Lumens per Lamp: N/A
Luminaire Lumens: 3022.0 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	101	101	101	101	87	87	87	74	74	74	62	62	62
1	100	96	92	88	93	89	86	83	77	75	72	66	64	63	55	54	53
2	91	84	78	73	85	79	73	69	68	64	61	58	56	53	50	48	46
3	84	74	67	62	78	70	63	58	61	56	52	52	49	46	44	42	40
4	77	66	59	53	71	62	55	50	54	49	45	47	43	40	40	37	35
5	71	59	51	46	66	56	49	43	49	43	39	42	38	35	36	33	30
6	65	53	46	40	61	50	43	38	44	39	34	38	34	31	33	30	27
7	61	49	41	35	56	46	39	34	40	35	30	35	31	27	30	27	24
8	56	44	37	31	52	42	35	30	37	31	27	32	28	25	28	25	22
9	53	41	33	28	49	38	32	27	34	28	25	30	25	22	26	23	20
10	49	37	30	25	46	35	29	24	31	26	22	28	23	20	24	21	18

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	2.6
10°-20°	212.4	7.0
20°-30°	298.2	9.9
30°-40°	325.1	10.8
40°-50°	298.8	9.9
50°-60°	234.7	7.8
60°-70°	152.7	5.1
70°-80°	78.6	2.6
80°-90°	20.9	0.7
90°-100°	14.9	0.5
100°-110°	55.5	1.8
110°-120°	147.1	4.9
120°-130°	244.0	8.1
130°-140°	259.2	8.6
140°-150°	240.9	8.0
150°-160°	193.7	6.4
160°-170°	124.8	4.1
170°-180°	43.0	1.4
0°-30°	588.0	19.5
0°-40°	913.1	30.2
0°-60°	1446.5	47.9
0°-90°	1698.8	56.2
90°-120°	217.5	7.2
90°-150°	961.7	31.8
90°-180°	1323.0	43.8
0°-180°	3022.0	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°	0	4	6	8	9	3
95°	21	10	13	14	14	25
105°	99	109	20	24	25	106
115°	188	193	202	50	27	185
125°	266	270	276	278	279	237
135°	329	334	337	340	339	254
145°	381	381	386	389	387	238
155°	420	417	421	423	420	193
165°	442	440	441	444	441	125
175°	452	450	451	453	450	43
180°	451	451	451	451	451	

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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°	0.3	3.9	6.5	8.2	8.8
92.5°	8.2	6.9	7.8	8.5	8.8
95°	21.2	10.5	12.7	14.4	14.0
97.5°	38.2	11.4	16.7	17.6	18.0
100°	57.8	13.1	18.6	21.2	21.9
102.5°	79.4	78.7	19.3	22.9	23.8
105°	99.3	109.1	19.9	23.5	24.8
107.5°	122.5	130.6	20.6	24.2	25.5
110°	144.7	151.5	57.2	24.5	25.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	165.6	171.5	165.9	25.1	26.1
115°	187.8	193.3	201.5	50.3	26.8
117.5°	207.1	213.6	219.1	172.4	86.9
120°	228.6	233.5	239.4	243.3	199.2
122.5°	246.9	252.1	258.7	260.6	260.9
125°	265.5	269.8	276.0	278.3	279.2
127.5°	282.5	287.1	292.0	295.2	295.6
130°	298.5	303.7	307.3	310.9	310.6
132.5°	314.8	319.1	322.7	325.6	325.3
135°	328.6	333.8	336.7	340.0	339.3
137.5°	342.9	346.8	350.1	353.4	352.4
140°	357.0	359.6	363.2	366.1	364.5
142.5°	368.7	371.0	375.3	377.9	376.2
145°	381.1	380.8	386.4	388.6	387.0
147.5°	391.9	390.9	396.5	398.1	396.8
150°	402.4	400.1	405.3	407.3	405.6
152.5°	411.2	408.6	413.5	415.4	413.1
155°	419.7	416.7	420.7	422.6	420.0
157.5°	426.5	423.9	426.9	429.1	426.5
160°	432.4	430.5	432.4	434.4	432.1
162.5°	437.6	435.7	437.3	439.6	436.7
165°	442.2	440.2	441.2	443.5	441.2
167.5°	445.8	443.8	444.8	447.1	444.2
170°	448.7	446.8	447.4	449.7	446.8
172.5°	450.7	448.7	449.4	451.7	448.7
175°	452.3	450.0	450.7	453.0	449.7
177.5°	453.0	450.7	451.0	453.3	450.4
180°	451.4	451.4	451.4	451.4	451.4

(END OF REPORT)