

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: P999708

Luminaire Tested: SA2XXRDIP-B485D330UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999708
REPORT IS A COMBINATION OF REPORTS P988263 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B485D330UB27-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

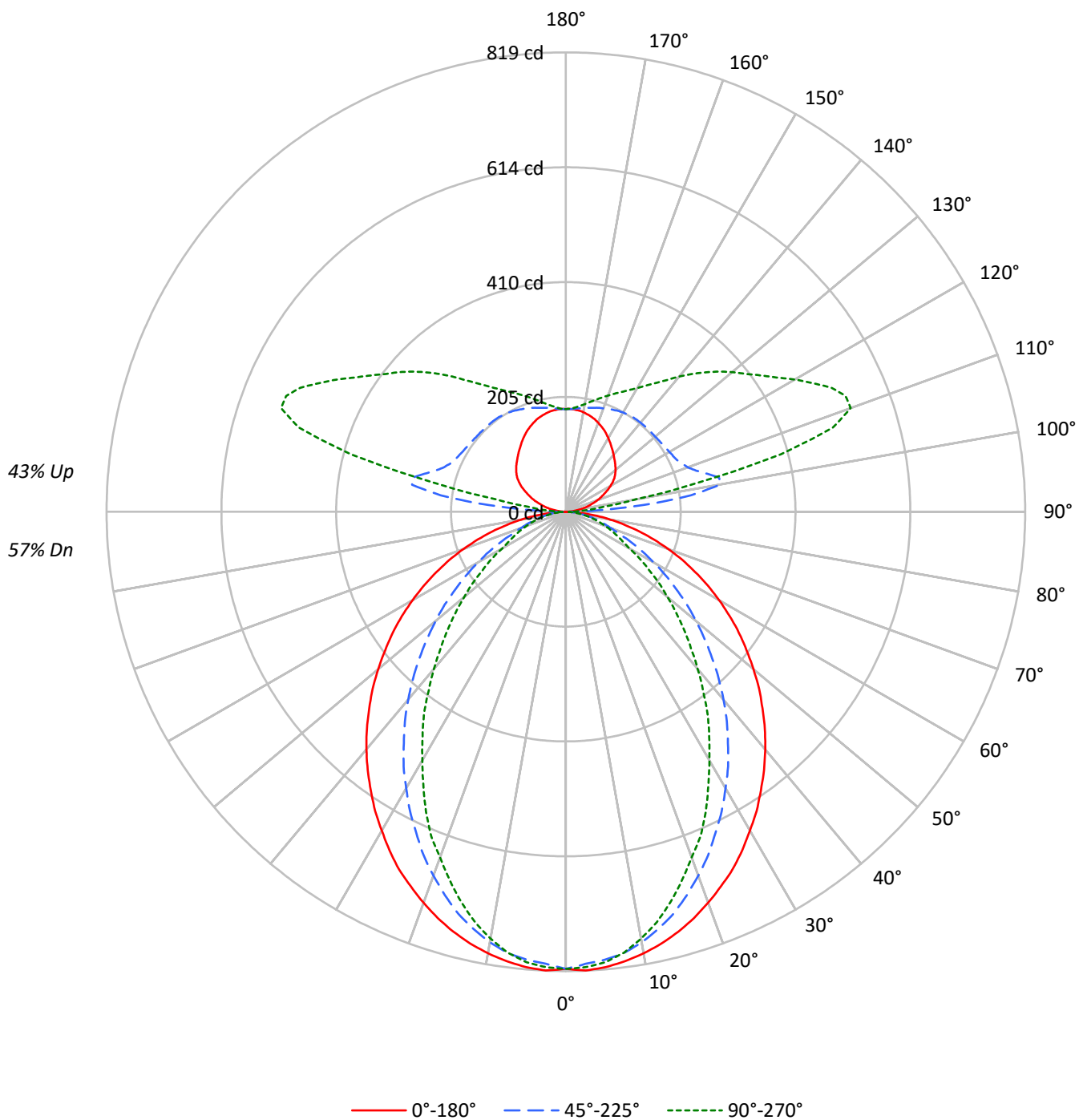
Lumens per Lamp: N/A
Luminaire Lumens: 2954.4 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	2.6
10°-20°	209.7	7.1
20°-30°	294.4	10.0
30°-40°	320.9	10.9
40°-50°	294.9	10.0
50°-60°	231.6	7.8
60°-70°	150.7	5.1
70°-80°	77.6	2.6
80°-90°	21.0	0.7
90°-100°	74.3	2.5
100°-110°	251.1	8.5
110°-120°	263.9	8.9
120°-130°	217.0	7.3
130°-140°	174.4	5.9
140°-150°	131.7	4.5
150°-160°	92.6	3.1
160°-170°	54.5	1.8
170°-180°	17.7	0.6
0°-30°	580.4	19.6
0°-40°	901.3	30.5
0°-60°	1427.8	48.3
0°-90°	1677.1	56.8
90°-120°	589.2	19.9
90°-150°	1112.4	37.7
90°-180°	1277.0	43.2
0°-180°	2954.4	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°	0	5	12	11	12	2
95°	12	30	138	52	40	13
105°	43	65	261	467	397	46
115°	76	96	218	451	522	75
125°	106	125	210	365	424	94
135°	124	148	208	307	351	96
145°	142	163	206	256	280	89
155°	161	174	200	227	236	74
165°	176	181	192	204	207	49
175°	183	183	185	187	186	17
180°	183	183	183	183	183	

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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°	0.4	4.8	12.0	11.4	11.6
92.5°	5.3	16.8	54.3	25.0	21.5
95°	12.3	30.3	138.1	52.2	40.2
97.5°	18.3	40.0	225.1	104.6	67.3
100°	27.1	49.0	278.3	208.4	126.1
102.5°	35.2	57.0	280.1	352.3	245.9
105°	43.0	64.8	261.1	466.6	397.1
107.5°	51.4	72.6	243.4	508.0	498.9
110°	59.9	80.5	231.5	501.4	540.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	67.6	88.1	223.7	478.6	539.7
115°	75.7	95.6	218.4	450.8	522.5
117.5°	84.2	103.2	215.6	424.2	496.4
120°	92.0	110.6	213.1	400.4	471.4
122.5°	99.4	118.2	211.7	381.9	445.3
125°	105.7	125.0	210.0	365.2	423.8
127.5°	111.0	131.6	208.9	350.9	403.7
130°	115.6	137.4	208.2	336.5	387.2
132.5°	119.8	143.0	207.9	321.4	369.9
135°	124.0	148.0	207.5	306.8	351.3
137.5°	127.9	152.2	207.5	292.1	333.3
140°	132.5	156.1	207.2	279.0	314.6
142.5°	137.0	159.2	207.2	266.5	295.9
145°	141.6	162.8	206.5	256.3	280.4
147.5°	146.6	165.6	205.4	247.3	266.7
150°	151.5	168.4	204.3	239.6	254.7
152.5°	156.4	171.2	202.6	233.0	244.5
155°	161.0	173.8	200.5	226.8	235.7
157.5°	164.9	176.0	198.4	220.7	227.9
160°	168.8	178.1	196.2	214.8	220.5
162.5°	172.6	179.7	194.5	209.1	213.5
165°	175.5	180.8	192.0	203.6	206.8
167.5°	177.9	181.8	189.9	198.7	200.5
170°	180.4	182.3	188.1	194.2	194.8
172.5°	181.8	182.8	186.0	190.0	190.2
175°	182.8	183.0	184.6	186.9	186.4
177.5°	183.6	183.2	183.2	184.6	183.6
180°	183.2	183.2	183.2	183.2	183.2

(END OF REPORT)