

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: P999605

Luminaire Tested: SA2XXRDIP-B290D725UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999605
REPORT IS A COMBINATION OF REPORTS P988158 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B290D725UB30-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

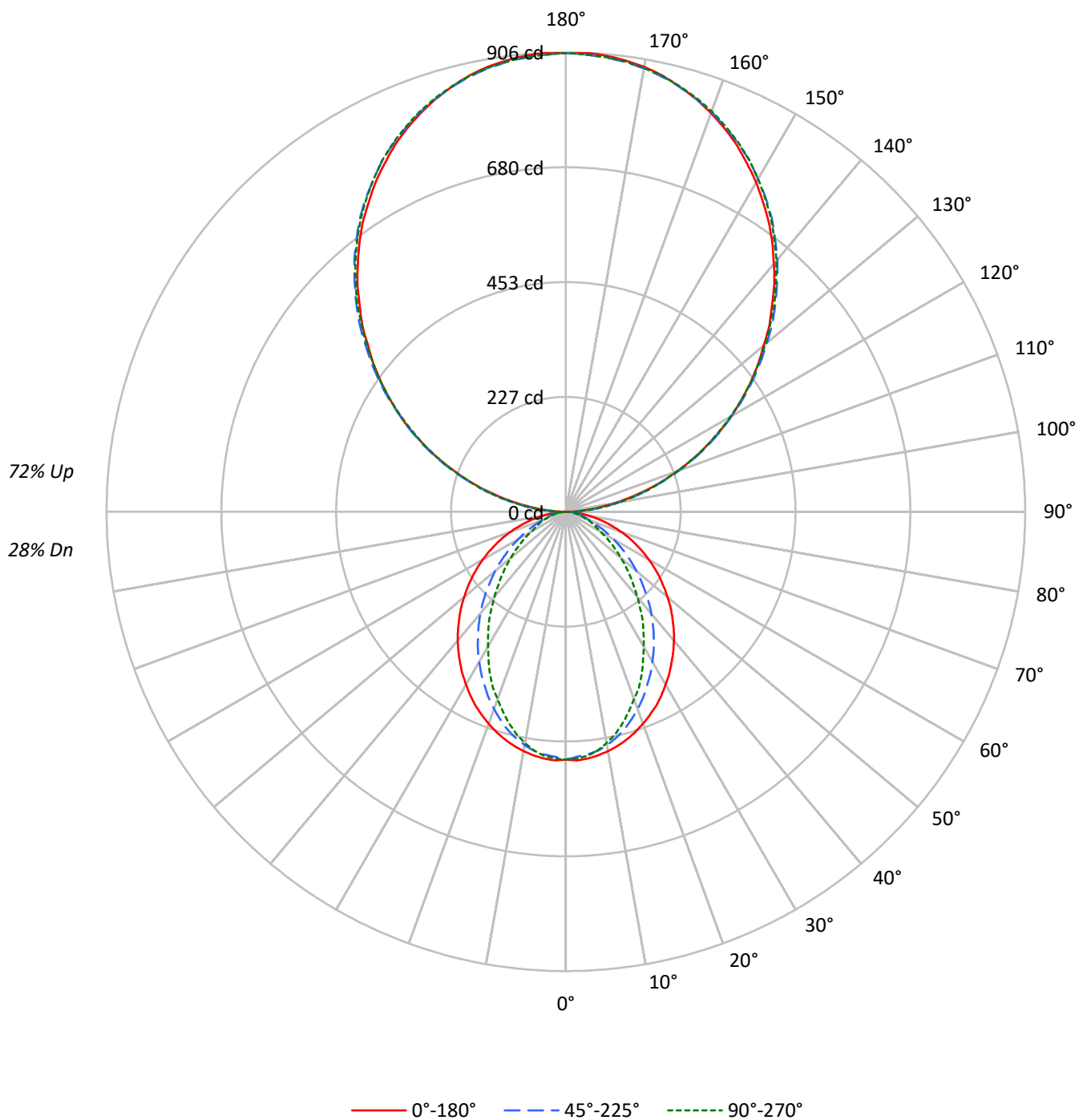
Lumens per Lamp: N/A
Luminaire Lumens: 3537.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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					0
RW	70	50	30	10	70	50	30	10	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	36	36	36	36	36	28
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	32	32	31	31	31	25
2	85	78	72	67	76	70	65	61	55	52	49	42	39	38	29	28	27	27	27	21
3	78	69	62	56	69	62	56	51	49	45	42	37	34	32	26	24	23	23	23	18
4	71	61	54	48	64	55	49	44	44	39	36	33	30	28	23	21	20	20	20	16
5	65	54	47	41	58	49	42	38	39	34	31	30	27	24	21	19	18	18	18	14
6	60	49	41	36	54	44	37	33	35	30	27	27	24	21	19	17	16	16	16	12
7	56	44	36	31	50	40	33	29	32	27	24	24	21	19	18	15	14	14	14	11
8	51	40	32	27	46	36	30	25	29	24	21	22	19	17	16	14	13	13	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	17	15	15	13	11	11	11	9
10	45	33	26	22	40	30	24	20	24	20	17	19	16	14	14	12	10	10	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7736	7736	7736
5°	7748	7359	7305
10°	7672	6979	6750
15°	7566	6532	6117
20°	7427	6022	5454
25°	7284	5499	4849
30°	7092	4991	4187
35°	6903	4477	3620
40°	6713	3973	3034
45°	6491	3452	2524
50°	6261	2952	2056
55°	6022	2449	1632
60°	5744	1958	1234
65°	5425	1492	1004
70°	5037	1083	798
75°	4554	827	609
80°	3848	559	410
85°	2684	256	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6491 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	1.3
10°-20°	125.7	3.6
20°-30°	176.5	5.0
30°-40°	192.4	5.4
40°-50°	176.8	5.0
50°-60°	138.9	3.9
60°-70°	90.4	2.6
70°-80°	46.5	1.3
80°-90°	14.4	0.4
90°-100°	56.0	1.6
100°-110°	177.9	5.0
110°-120°	304.4	8.6
120°-130°	400.4	11.3
130°-140°	449.4	12.7
140°-150°	440.7	12.5
150°-160°	369.7	10.5
160°-170°	245.2	6.9
170°-180°	85.7	2.4
0°-30°	348.0	9.8
0°-40°	540.4	15.3
0°-60°	856.2	24.2
0°-90°	1007.6	28.5
90°-120°	538.3	15.2
90°-150°	1828.9	51.7
90°-180°	2529.0	71.5
0°-180°	3537.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	489	489	489	489	489	
5°	489	486	481	485	483	46
15°	465	460	445	436	432	131
25°	422	408	378	360	354	194
35°	364	341	302	274	264	228
45°	297	268	221	190	179	230
55°	226	192	144	117	109	202
65°	153	117	77	62	61	151
75°	81	50	35	32	32	86
85°	19	10	8	8	8	22
90°	1	10	27	25	26	3
95°	40	47	49	49	47	44
105°	164	166	168	170	170	173
115°	305	310	308	308	305	302
125°	444	451	449	447	446	397
135°	575	583	585	584	582	444
145°	698	703	708	708	706	436
155°	798	800	802	806	804	367
165°	868	867	867	873	869	245
175°	903	901	899	905	900	86
180°	905	905	905	905	905	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	488.7	488.7	488.7	488.7	488.7
2.5°	490.9	488.7	483.8	488.2	487.3
5°	488.7	486.5	480.7	484.7	483.4
7.5°	484.7	482.0	475.8	477.6	475.4
10°	479.4	476.3	467.4	466.1	463.5
12.5°	472.7	468.8	456.8	454.2	449.3
15°	464.8	459.9	444.9	436.5	432.1
17.5°	455.5	448.4	429.8	420.1	413.0
20°	444.9	436.0	413.9	402.9	393.1
22.5°	433.4	423.2	397.6	382.5	375.9
25°	421.9	407.7	378.5	360.4	353.8
27.5°	408.2	393.1	360.9	340.1	329.9
30°	393.6	376.8	341.4	318.8	306.9
32.5°	379.4	359.1	322.8	296.3	285.2
35°	363.5	341.0	302.0	274.2	264.5
37.5°	348.0	323.7	282.6	252.1	241.0
40°	331.7	305.1	262.2	230.8	219.3
42.5°	314.9	286.6	241.9	209.2	198.1
45°	297.2	267.5	221.1	189.7	179.1
47.5°	280.4	249.0	201.2	169.8	160.1
50°	261.8	230.4	181.8	151.2	142.0
52.5°	243.7	210.5	163.2	134.0	125.6
55°	226.0	191.5	143.7	117.2	108.8
57.5°	207.8	172.5	126.5	101.7	94.6
60°	189.3	153.9	108.3	85.8	78.7
62.5°	171.1	135.8	92.9	71.6	68.1
65°	152.6	116.7	76.9	61.9	60.6
67.5°	134.9	99.1	61.9	54.4	53.1
70°	116.3	81.8	51.3	46.9	45.1
72.5°	98.6	65.9	42.9	39.4	38.5
75°	81.4	50.4	35.4	32.3	31.8
77.5°	64.1	35.8	27.9	26.1	25.2
80°	48.2	25.6	21.2	19.5	19.5
82.5°	33.6	17.2	14.6	13.7	13.7
85°	19.0	9.7	8.4	8.4	8.4
87.5°	7.1	3.5	3.5	3.1	3.1
90°	0.8	9.9	26.7	25.2	26.0
92.5°	16.8	22.9	23.7	24.4	24.4
95°	39.7	47.3	48.9	48.9	47.3
97.5°	66.4	73.3	76.3	76.3	76.3
100°	97.0	103.1	105.4	105.4	104.6
102.5°	129.0	133.6	136.7	137.4	136.7
105°	164.1	166.4	168.0	169.5	169.5
107.5°	199.3	202.3	202.3	203.1	199.3
110°	232.9	237.4	237.4	237.4	235.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	269.5	274.1	273.3	271.0	269.5
115°	305.4	310.0	308.4	307.7	305.4
117.5°	341.3	347.4	343.6	341.3	339.0
120°	377.2	383.3	377.2	377.2	374.9
122.5°	410.0	417.6	413.8	411.5	410.0
125°	444.3	451.2	448.9	446.6	445.9
127.5°	477.9	486.3	483.3	480.2	477.9
130°	509.2	519.2	517.6	516.1	513.1
132.5°	544.4	552.0	552.8	548.9	546.6
135°	574.9	583.3	584.8	584.1	581.8
137.5°	608.5	615.4	616.9	616.1	613.1
140°	638.3	645.1	649.0	649.0	645.9
142.5°	668.8	675.7	678.0	678.7	675.7
145°	697.8	703.2	707.7	708.5	705.5
147.5°	723.8	730.6	733.7	735.2	732.2
150°	750.5	755.1	758.1	760.4	758.1
152.5°	774.2	778.7	782.6	785.6	782.6
155°	797.8	800.1	802.4	806.2	803.9
157.5°	818.4	820.0	821.5	826.8	823.0
160°	836.8	838.3	839.1	843.6	840.6
162.5°	853.6	853.6	854.3	859.7	855.9
165°	868.1	867.3	867.3	872.7	868.8
167.5°	881.1	878.8	878.8	884.1	880.3
170°	891.0	888.7	887.9	893.3	888.7
172.5°	897.8	895.6	894.8	900.1	895.6
175°	903.2	900.9	899.4	904.7	900.1
177.5°	906.2	904.0	902.4	907.0	902.4
180°	904.7	904.7	904.7	904.7	904.7

(END OF REPORT)