

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: P999616

Luminaire Tested: SA2XXRDIP-B290D725UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999616
REPORT IS A COMBINATION OF REPORTS P988169 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B290D725UB40-4F0-XX-W2A-F
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

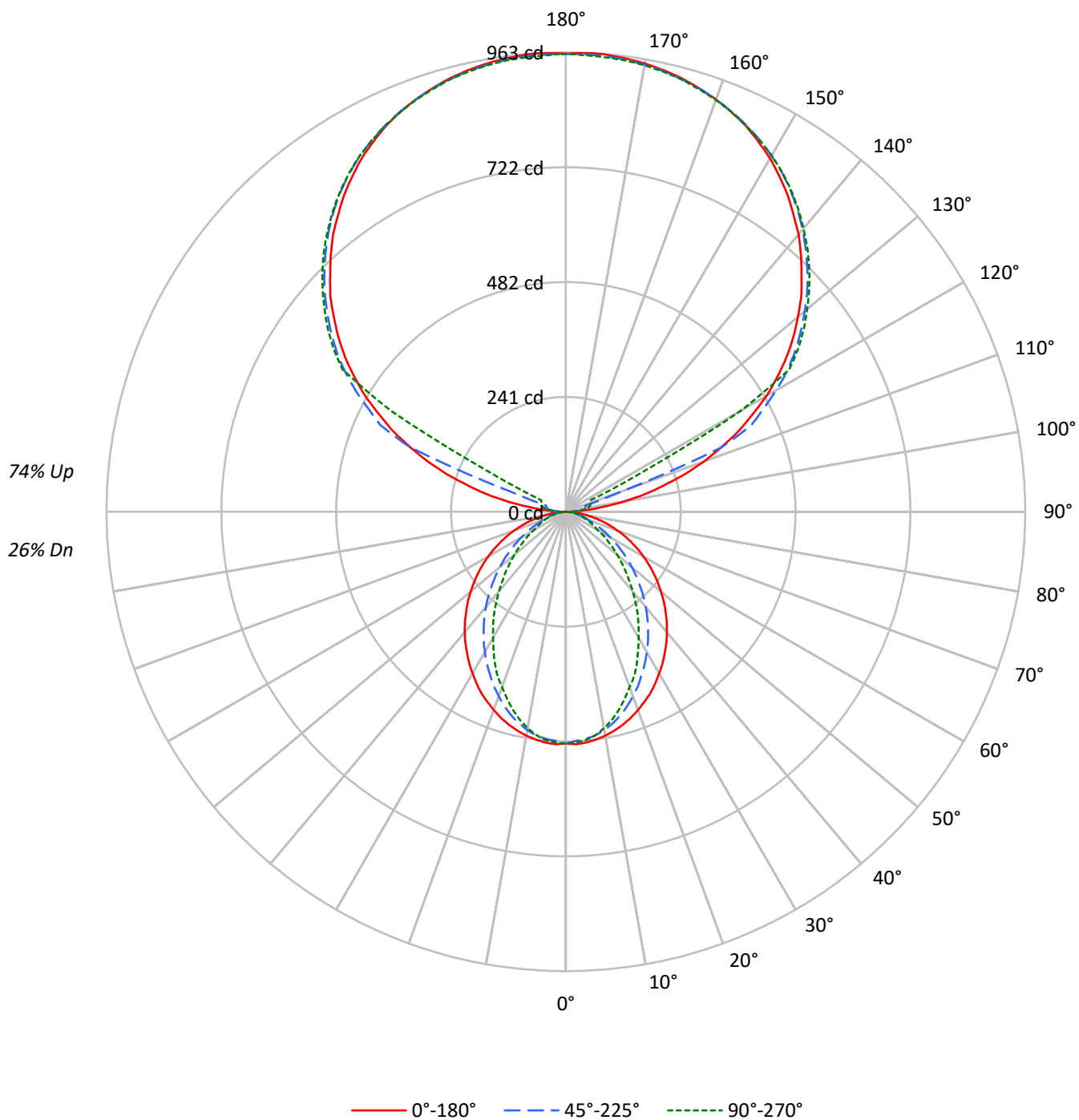
Lumens per Lamp: N/A
Luminaire Lumens: 3815.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34
1	93	89	85	82	83	79	76	73	62	60	58	46	44	43	31	30	29
2	85	78	72	67	75	70	65	61	54	51	48	40	38	36	27	26	25
3	77	68	62	56	69	61	56	51	48	44	41	36	33	31	24	23	22
4	71	61	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19
5	65	54	46	41	58	49	42	37	38	34	30	29	26	23	20	18	17
6	60	48	41	35	53	44	37	32	34	30	26	26	23	20	18	16	15
7	55	44	36	31	49	39	33	28	31	26	23	24	20	18	17	15	13
8	51	39	32	27	46	36	29	25	28	24	20	22	18	16	15	13	12
9	48	36	29	24	42	33	26	22	26	21	18	20	17	14	14	12	11
10	44	33	26	21	40	30	24	20	24	19	16	18	15	13	13	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7688	7688	7688
5°	7701	7315	7261
10°	7625	6937	6709
15°	7521	6492	6080
20°	7382	5987	5422
25°	7241	5467	4820
30°	7049	4961	4163
35°	6862	4450	3598
40°	6673	3950	3016
45°	6452	3432	2509
50°	6222	2934	2043
55°	5985	2435	1621
60°	5708	1947	1226
65°	5393	1485	997
70°	5006	1077	793
75°	4526	822	607
80°	3824	556	406
85°	2670	256	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6452 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	1.2
10°-20°	125.0	3.3
20°-30°	175.5	4.6
30°-40°	191.3	5.0
40°-50°	175.8	4.6
50°-60°	138.0	3.6
60°-70°	89.9	2.4
70°-80°	46.3	1.2
80°-90°	13.5	0.4
90°-100°	31.7	0.8
100°-110°	118.0	3.1
110°-120°	313.0	8.2
120°-130°	519.1	13.6
130°-140°	551.4	14.5
140°-150°	512.4	13.4
150°-160°	412.0	10.8
160°-170°	265.5	7.0
170°-180°	91.4	2.4
0°-30°	346.0	9.1
0°-40°	537.2	14.1
0°-60°	851.1	22.3
0°-90°	1000.7	26.2
90°-120°	462.7	12.1
90°-150°	2045.5	53.6
90°-180°	2814.0	73.8
0°-180°	3815.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	486	486	486	486	486	
5°	486	484	478	482	480	46
15°	462	457	442	434	430	130
25°	419	405	376	358	352	193
35°	361	339	300	272	263	226
45°	295	266	220	189	178	228
55°	225	190	143	116	108	201
65°	152	116	76	62	60	150
75°	81	50	35	32	32	86
85°	19	10	8	8	8	22
90°	1	8	14	17	19	4
95°	45	22	27	31	30	53
105°	211	232	42	50	53	226
115°	399	411	429	107	57	393
125°	565	574	587	592	594	504
135°	699	710	716	723	722	540
145°	811	810	822	827	823	507
155°	893	886	895	899	893	411
165°	940	936	938	943	938	266
175°	962	957	959	963	956	92
180°	960	960	960	960	960	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	485.7	485.7	485.7	485.7	485.7
2.5°	487.9	485.7	480.9	485.3	484.4
5°	485.7	483.5	477.8	481.8	480.5
7.5°	481.8	479.2	473.0	474.8	472.6
10°	476.5	473.4	464.6	463.3	460.7
12.5°	469.9	466.0	454.1	451.5	446.6
15°	462.0	457.2	442.2	433.9	429.5
17.5°	452.8	445.7	427.3	417.6	410.6
20°	442.2	433.4	411.5	400.5	390.8
22.5°	430.8	420.7	395.2	380.2	373.7
25°	419.4	405.3	376.3	358.3	351.7
27.5°	405.7	390.8	358.7	338.0	327.9
30°	391.2	374.5	339.4	316.9	305.1
32.5°	377.2	356.9	320.9	294.5	283.5
35°	361.3	338.9	300.2	272.5	262.9
37.5°	346.0	321.8	280.9	250.6	239.6
40°	329.7	303.3	260.7	229.5	218.0
42.5°	313.0	284.9	240.5	207.9	196.9
45°	295.4	266.0	219.8	188.6	178.0
47.5°	278.7	247.5	200.0	168.8	159.1
50°	260.2	229.0	180.7	150.3	141.1
52.5°	242.2	209.2	162.2	133.2	124.8
55°	224.6	190.3	142.9	116.5	108.1
57.5°	206.6	171.4	125.7	101.1	94.1
60°	188.1	153.0	107.7	85.3	78.2
62.5°	170.1	135.0	92.3	71.2	67.7
65°	151.7	116.1	76.5	61.5	60.2
67.5°	134.1	98.5	61.5	54.1	52.8
70°	115.6	81.3	51.0	46.6	44.8
72.5°	98.0	65.5	42.6	39.1	38.2
75°	80.9	50.1	35.2	32.1	31.7
77.5°	63.7	35.6	27.7	25.9	25.1
80°	47.9	25.5	21.1	19.3	19.3
82.5°	33.4	17.1	14.5	13.6	13.6
85°	18.9	9.7	8.4	8.4	8.4
87.5°	7.0	3.5	3.5	3.1	3.1
90°	0.7	8.3	13.9	17.4	18.8
92.5°	17.4	14.6	16.7	18.1	18.8
95°	45.2	22.2	27.1	30.6	29.9
97.5°	81.3	24.3	35.4	37.5	38.2
100°	122.9	27.8	39.6	45.2	46.5
102.5°	168.8	167.4	41.0	48.6	50.7
105°	211.2	232.0	42.4	50.0	52.8
107.5°	260.5	277.9	43.8	51.4	54.2
110°	307.7	322.3	121.6	52.1	54.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	352.2	364.7	352.9	53.5	55.6
115°	399.4	411.2	428.6	107.0	57.0
117.5°	440.4	454.3	466.1	366.8	184.8
120°	486.2	496.7	509.2	517.5	423.7
122.5°	525.1	536.3	550.1	554.3	555.0
125°	564.7	573.8	587.0	591.8	593.9
127.5°	600.9	610.6	621.0	627.9	628.6
130°	634.9	646.0	653.6	661.3	660.6
132.5°	669.6	678.7	686.3	692.5	691.8
135°	698.8	709.9	716.2	723.1	721.7
137.5°	729.4	737.7	744.6	751.6	749.5
140°	759.2	764.8	772.4	778.7	775.2
142.5°	784.2	789.1	798.1	803.7	800.2
145°	810.6	809.9	821.7	826.6	823.1
147.5°	833.6	831.5	843.3	846.8	844.0
150°	855.8	850.9	862.0	866.2	862.7
152.5°	874.5	869.0	879.4	883.6	878.7
155°	892.6	886.3	894.7	898.8	893.3
157.5°	907.2	901.6	907.9	912.7	907.2
160°	919.7	915.5	919.7	923.9	919.0
162.5°	930.8	926.6	930.1	935.0	928.7
165°	940.5	936.4	938.4	943.3	938.4
167.5°	948.2	944.0	946.1	950.9	944.7
170°	954.4	950.3	951.6	956.5	950.3
172.5°	958.6	954.4	955.8	960.7	954.4
175°	962.1	957.2	958.6	963.4	956.5
177.5°	963.4	958.6	959.3	964.1	957.9
180°	960.0	960.0	960.0	960.0	960.0

(END OF REPORT)