

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: P999630

Luminaire Tested: SA2XXRDIP-B290D925UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999630
REPORT IS A COMBINATION OF REPORTS P988183 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B290D925UB27-4F0-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

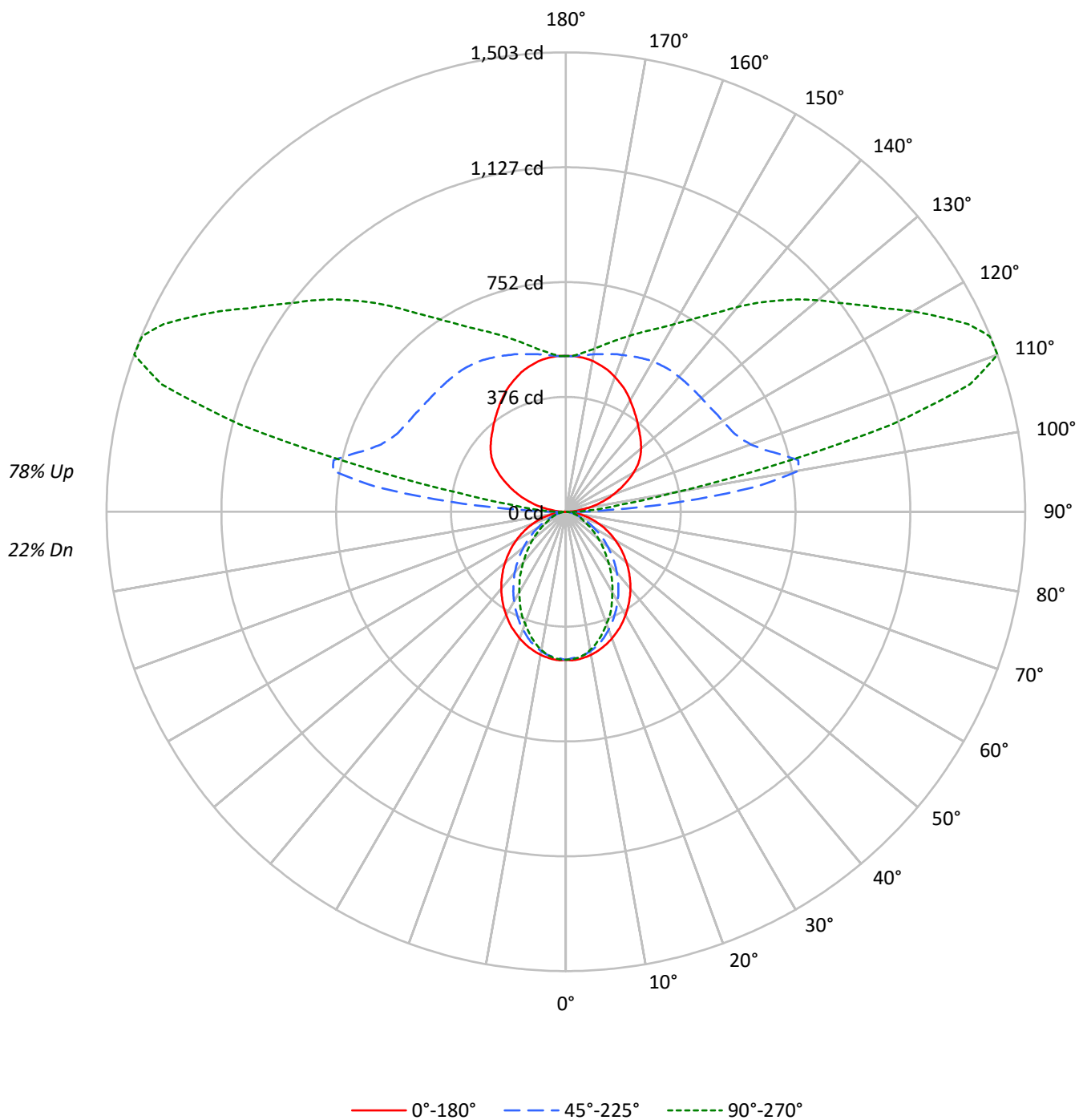
Lumens per Lamp: N/A
Luminaire Lumens: 4551.1 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30
1	92	88	84	81	81	78	75	72	59	58	56	43	41	40	27	26	26
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	24	23	22
3	76	68	61	55	67	60	54	50	46	42	39	33	31	29	21	20	19
4	70	60	52	47	62	53	47	42	41	37	33	30	27	25	19	18	17
5	64	53	46	40	57	47	41	36	37	32	29	27	24	22	17	16	15
6	59	48	40	34	52	43	36	31	33	28	25	24	21	19	16	14	13
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	11
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	13	12	10
9	47	35	28	23	41	32	26	21	25	20	17	18	15	13	12	11	9
10	44	32	25	21	39	29	23	19	23	18	15	17	14	12	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7666	7666	7666
5°	7679	7293	7239
10°	7603	6918	6689
15°	7498	6473	6062
20°	7360	5968	5406
25°	7218	5451	4805
30°	7029	4945	4151
35°	6843	4437	3587
40°	6653	3938	3008
45°	6432	3421	2502
50°	6206	2924	2037
55°	5969	2427	1617
60°	5693	1942	1223
65°	5375	1481	994
70°	4993	1073	791
75°	4509	820	605
80°	3816	553	406
85°	2656	253	195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6432 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	1.0
10°-20°	124.6	2.7
20°-30°	174.9	3.8
30°-40°	190.7	4.2
40°-50°	175.3	3.9
50°-60°	137.6	3.0
60°-70°	89.6	2.0
70°-80°	46.1	1.0
80°-90°	15.0	0.3
90°-100°	206.5	4.5
100°-110°	698.2	15.3
110°-120°	733.9	16.1
120°-130°	603.5	13.3
130°-140°	484.9	10.7
140°-150°	366.3	8.0
150°-160°	257.5	5.7
160°-170°	151.6	3.3
170°-180°	49.3	1.1
0°-30°	344.9	7.6
0°-40°	535.6	11.8
0°-60°	848.5	18.6
0°-90°	999.2	22.0
90°-120°	1638.5	36.0
90°-150°	3093.3	68.0
90°-180°	3552.0	78.0
0°-180°	4551.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	484	484	484	484	484	
5°	484	482	476	480	479	46
15°	461	456	441	433	428	130
25°	418	404	375	357	351	192
35°	360	338	299	272	262	225
45°	294	265	219	188	178	227
55°	224	190	142	116	108	200
65°	151	116	76	61	60	150
75°	81	50	35	32	32	85
85°	19	10	8	8	8	22
90°	1	13	33	32	32	3
95°	34	84	384	145	112	35
105°	120	180	726	1298	1104	127
115°	211	266	607	1254	1453	209
125°	294	348	584	1015	1179	261
135°	345	412	577	853	977	266
145°	394	453	574	713	780	247
155°	448	483	557	630	655	206
165°	488	503	534	566	575	138
175°	508	509	513	520	518	48
180°	509	509	509	509	509	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	484.3	484.3	484.3	484.3	484.3
2.5°	486.5	484.3	479.5	483.8	483.0
5°	484.3	482.1	476.4	480.3	479.0
7.5°	480.3	477.7	471.6	473.3	471.1
10°	475.1	472.0	463.3	461.9	459.3
12.5°	468.5	464.6	452.7	450.1	445.3
15°	460.6	455.8	440.9	432.6	428.2
17.5°	451.4	444.4	426.0	416.4	409.3
20°	440.9	432.1	410.2	399.3	389.6
22.5°	429.5	419.4	394.0	379.1	372.5
25°	418.1	404.1	375.2	357.2	350.6
27.5°	404.5	389.6	357.6	337.0	326.9
30°	390.1	373.4	338.3	316.0	304.2
32.5°	376.0	355.9	319.9	293.6	282.7
35°	360.3	337.9	299.3	271.7	262.1
37.5°	344.9	320.8	280.1	249.8	238.9
40°	328.7	302.4	259.9	228.8	217.4
42.5°	312.0	284.0	239.7	207.3	196.3
45°	294.5	265.2	219.1	188.0	177.5
47.5°	277.9	246.7	199.4	168.3	158.7
50°	259.5	228.3	180.1	149.9	140.7
52.5°	241.5	208.6	161.7	132.8	124.5
55°	224.0	189.8	142.4	116.1	107.8
57.5°	206.0	170.9	125.3	100.8	93.8
60°	187.6	152.5	107.4	85.0	78.0
62.5°	169.6	134.5	92.0	71.0	67.5
65°	151.2	115.7	76.3	61.4	60.0
67.5°	133.7	98.2	61.4	53.9	52.6
70°	115.3	81.1	50.8	46.5	44.7
72.5°	97.7	65.3	42.5	39.0	38.1
75°	80.6	50.0	35.1	32.0	31.6
77.5°	63.5	35.5	27.6	25.9	25.0
80°	47.8	25.4	21.0	19.3	19.3
82.5°	33.3	17.1	14.5	13.6	13.6
85°	18.8	9.6	8.3	8.3	8.3
87.5°	7.0	3.5	3.5	3.1	3.1
90°	1.0	13.2	33.3	31.8	32.3
92.5°	14.7	46.5	150.9	69.6	59.8
95°	34.3	84.2	384.0	145.0	111.7
97.5°	50.9	111.2	626.0	291.0	187.1
100°	75.4	136.2	774.0	579.5	350.7
102.5°	98.0	158.7	778.8	979.7	683.8
105°	119.5	180.2	725.9	1297.6	1104.1
107.5°	143.0	201.8	677.0	1412.7	1387.2
110°	166.5	223.9	643.7	1394.1	1502.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.1	244.9	622.1	1330.9	1500.9
115°	210.6	266.0	607.4	1253.6	1452.9
117.5°	234.1	287.0	599.6	1179.5	1380.4
120°	255.7	307.6	592.7	1113.4	1310.8
122.5°	276.3	328.7	588.8	1062.0	1238.3
125°	293.9	347.8	583.9	1015.4	1178.6
127.5°	308.6	365.9	581.0	975.8	1122.7
130°	321.3	382.1	579.0	935.6	1076.7
132.5°	333.1	397.8	578.0	894.0	1028.7
135°	344.8	411.5	577.0	853.3	976.7
137.5°	355.6	423.2	577.0	812.2	926.8
140°	368.4	434.0	576.1	776.0	874.9
142.5°	381.1	442.8	576.1	741.2	822.9
145°	393.8	452.6	574.1	712.7	779.8
147.5°	407.5	460.4	571.2	687.8	741.6
150°	421.3	468.3	568.2	666.2	708.3
152.5°	435.0	476.2	563.3	648.0	679.9
155°	447.7	483.4	557.4	630.4	655.4
157.5°	458.5	489.4	551.6	613.8	633.9
160°	469.3	495.2	545.7	597.1	613.3
162.5°	480.0	499.6	540.8	581.4	593.7
165°	487.9	502.6	533.9	566.2	575.1
167.5°	494.7	505.6	528.1	552.6	557.4
170°	501.6	507.0	523.2	539.8	541.8
172.5°	505.5	508.4	517.3	528.6	529.0
175°	508.5	509.0	513.4	519.7	518.3
177.5°	510.4	509.4	509.4	513.4	510.4
180°	509.4	509.4	509.4	509.4	509.4

(END OF REPORT)