

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: P1000224

Luminaire Tested: SA2XXRDIP-B865D925UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000224
REPORT IS A COMBINATION OF REPORTS P988784 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B865D925UB27-4F0-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

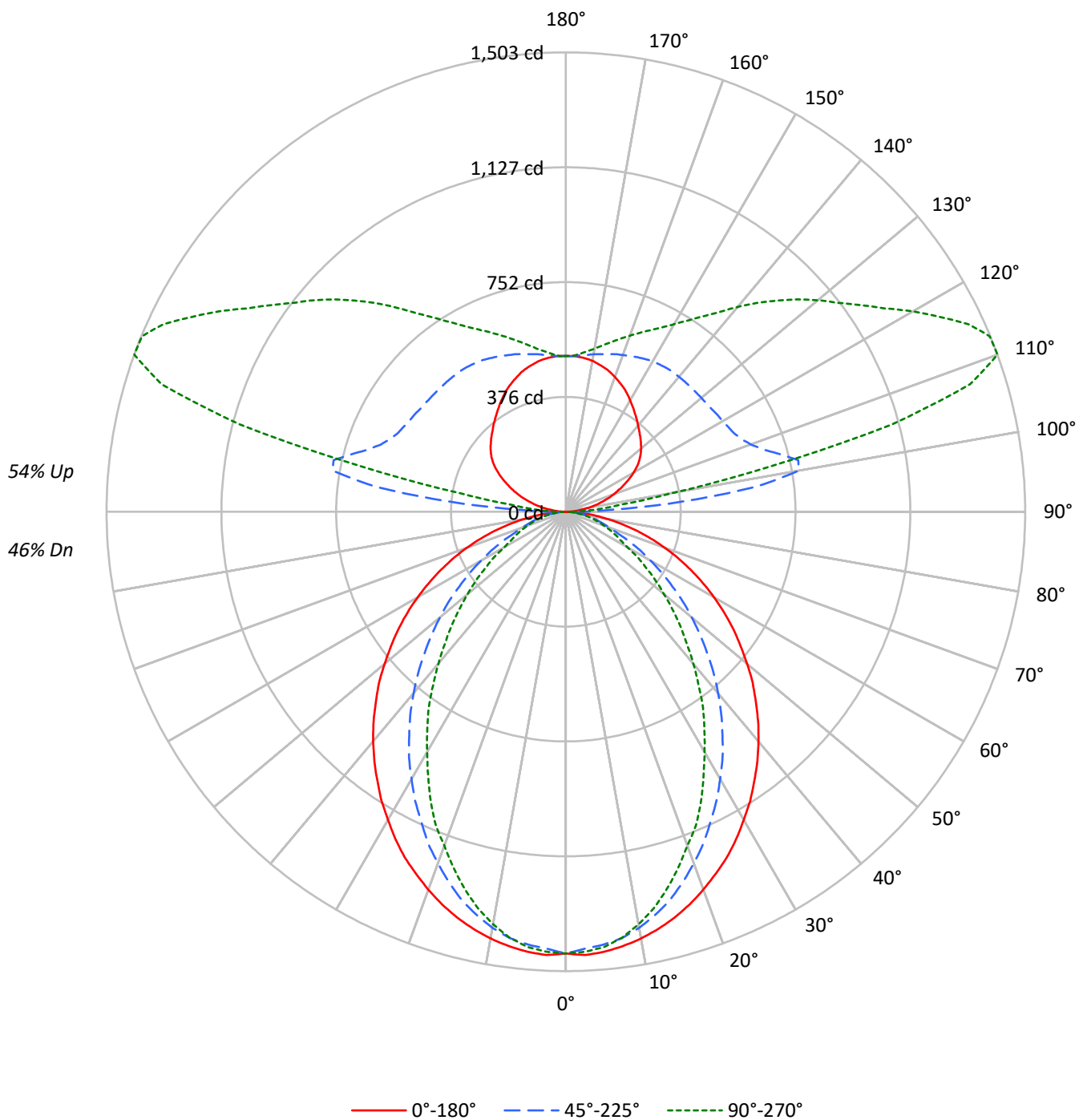
Lumens per Lamp: N/A
Luminaire Lumens: 6527.1 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46	46	46
1	97	93	89	86	89	86	82	80	72	69	67	59	57	56	47	46	45	39	39	39
2	89	82	76	71	81	75	70	66	63	60	56	52	49	47	42	40	38	34	34	34
3	81	72	65	60	74	67	61	56	56	52	48	46	43	40	37	35	33	29	29	29
4	75	64	57	51	68	59	53	48	50	45	41	42	38	35	34	31	29	25	25	25
5	69	57	50	44	63	53	46	41	45	40	36	38	34	31	30	28	26	22	22	22
6	63	52	44	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20	20	20
7	59	47	39	34	54	43	37	32	37	32	28	31	27	24	25	23	20	18	18	18
8	54	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	18	16	16	16
9	51	39	32	27	47	36	30	25	31	26	22	26	22	19	22	19	17	14	14	14
10	47	36	29	24	44	33	27	23	29	24	20	24	20	18	20	17	15	13	13	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22875	22875	22875
5°	22912	21762	21601
10°	22686	20640	19959
15°	22375	19315	18088
20°	21962	17809	16131
25°	21539	16263	14339
30°	20971	14759	12384
35°	20416	13240	10703
40°	19851	11750	8975
45°	19193	10211	7465
50°	18514	8727	6077
55°	17808	7243	4825
60°	16984	5793	3651
65°	16040	4417	2968
70°	14893	3204	2360
75°	13459	2443	1803
80°	11377	1655	1209
85°	7939	756	583

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19193 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	2.1
10°-20°	371.8	5.7
20°-30°	522.0	8.0
30°-40°	569.0	8.7
40°-50°	523.0	8.0
50°-60°	410.7	6.3
60°-70°	267.3	4.1
70°-80°	137.6	2.1
80°-90°	38.4	0.6
90°-100°	206.5	3.2
100°-110°	698.2	10.7
110°-120°	733.9	11.2
120°-130°	603.5	9.2
130°-140°	484.9	7.4
140°-150°	366.3	5.6
150°-160°	257.5	3.9
160°-170°	151.6	2.3
170°-180°	49.3	0.8
0°-30°	1029.2	15.8
0°-40°	1598.2	24.5
0°-60°	2531.9	38.8
0°-90°	2975.3	45.6
90°-120°	1638.5	25.1
90°-150°	3093.3	47.4
90°-180°	3552.0	54.4
0°-180°	6527.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1445	1445	1445	1445	1445	
5°	1445	1438	1422	1433	1429	137
15°	1374	1360	1316	1291	1278	387
25°	1248	1206	1119	1066	1046	574
35°	1075	1008	893	811	782	673
45°	879	791	654	561	530	679
55°	668	566	425	347	322	597
65°	451	345	228	183	179	447
75°	241	149	105	96	94	254
85°	56	29	25	25	25	65
90°	1	13	33	32	32	5
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°	1445.1	1445.1	1445.1	1445.1	1445.1
2.5°	1451.6	1445.1	1430.7	1443.8	1441.2
5°	1445.1	1438.5	1421.5	1433.3	1429.4
7.5°	1433.3	1425.5	1407.2	1412.4	1405.9
10°	1417.6	1408.5	1382.3	1378.4	1370.5
12.5°	1398.0	1386.2	1350.9	1343.1	1328.7
15°	1374.5	1360.1	1315.6	1290.8	1277.7
17.5°	1347.0	1326.1	1271.2	1242.4	1221.5
20°	1315.6	1289.5	1224.1	1191.4	1162.6
22.5°	1281.6	1251.5	1175.7	1131.2	1111.6
25°	1247.6	1205.8	1119.4	1065.8	1046.2
27.5°	1207.1	1162.6	1067.1	1005.7	975.6
30°	1163.9	1114.2	1009.6	942.9	907.6
32.5°	1122.1	1061.9	954.7	876.2	843.5
35°	1075.0	1008.3	893.2	810.8	782.0
37.5°	1029.2	957.3	835.7	745.4	712.7
40°	980.8	902.4	775.5	682.7	648.7
42.5°	931.1	847.4	715.3	618.6	585.9
45°	878.8	791.2	653.9	561.0	529.6
47.5°	829.1	736.3	595.0	502.2	473.4
50°	774.2	681.3	537.5	447.3	419.8
52.5°	720.6	622.5	482.6	396.3	371.4
55°	668.3	566.3	425.0	346.6	321.7
57.5°	614.7	510.0	374.0	300.8	279.9
60°	559.7	455.1	320.4	253.7	232.8
62.5°	506.1	401.5	274.6	211.9	201.4
65°	451.2	345.3	227.6	183.1	179.2
67.5°	398.9	292.9	183.1	160.9	156.9
70°	343.9	241.9	151.7	138.6	133.4
72.5°	291.6	194.9	126.9	116.4	113.8
75°	240.6	149.1	104.6	95.5	94.2
77.5°	189.6	105.9	82.4	77.2	74.5
80°	142.5	75.9	62.8	57.5	57.5
82.5°	99.4	51.0	43.2	40.5	40.5
85°	56.2	28.8	24.8	24.8	24.8
87.5°	20.9	10.5	10.5	9.2	9.2
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)