

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: P1000184

Luminaire Tested: SA2XXRDIP-B865D725UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000184
REPORT IS A COMBINATION OF REPORTS P988744 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B865D725UB27-4F0-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

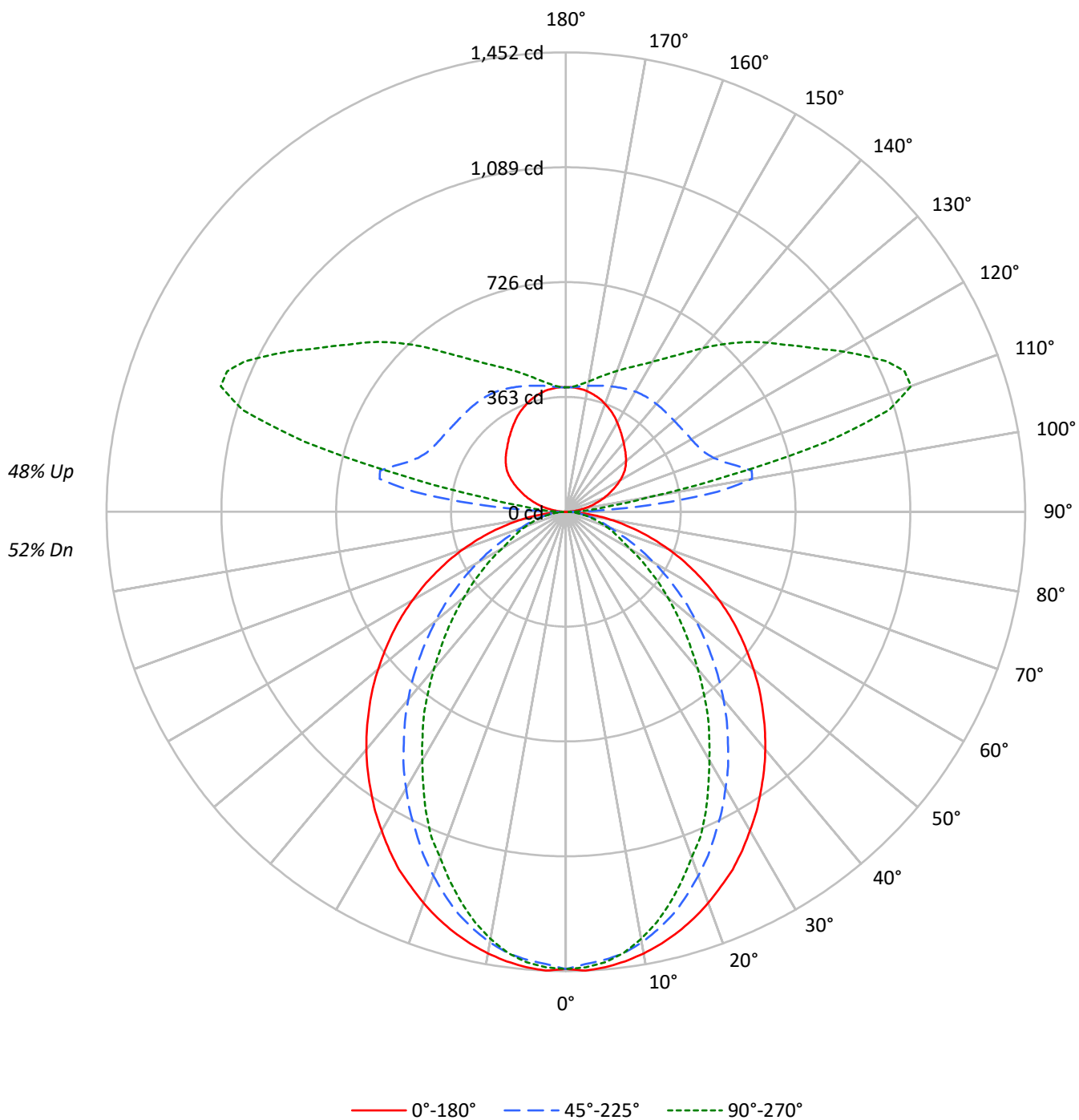
Lumens per Lamp: N/A
Luminaire Lumens: 5718.2 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
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	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58
1	99	95	91	88	91	88	85	82	75	72	70	63	61	60	52	51	50
2	90	83	77	72	83	77	72	68	66	62	59	56	53	51	46	45	43
3	83	74	66	61	76	68	62	57	59	54	50	50	46	44	42	39	37
4	76	65	58	52	70	61	54	49	53	47	43	45	41	38	37	35	32
5	70	59	51	45	65	55	48	42	47	42	38	40	36	33	34	31	29
6	65	53	45	39	60	49	42	37	43	37	33	37	32	29	31	28	25
7	60	48	40	35	55	45	38	33	39	33	29	34	29	26	28	25	23
8	56	44	36	31	51	41	34	29	36	30	26	31	27	23	26	23	21
9	52	40	33	28	48	37	31	26	33	27	24	28	24	21	24	21	19
10	49	37	30	25	45	34	28	24	30	25	21	26	22	19	23	19	17

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	2.4
10°-20°	371.8	6.5
20°-30°	522.0	9.1
30°-40°	569.0	10.0
40°-50°	523.0	9.1
50°-60°	410.7	7.2
60°-70°	267.3	4.7
70°-80°	137.6	2.4
80°-90°	37.7	0.7
90°-100°	159.5	2.8
100°-110°	539.3	9.4
110°-120°	566.9	9.9
120°-130°	466.2	8.2
130°-140°	374.6	6.6
140°-150°	283.0	4.9
150°-160°	198.9	3.5
160°-170°	117.1	2.0
170°-180°	38.1	0.7
0°-30°	1029.2	18.0
0°-40°	1598.2	28.0
0°-60°	2531.9	44.3
0°-90°	2974.5	52.0
90°-120°	1265.7	22.1
90°-150°	2389.4	41.8
90°-180°	2744.0	48.0
0°-180°	5718.2	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	10	26	25	25	5
95°	26	65	297	112	86	27
105°	92	139	561	1002	853	98
115°	163	205	469	968	1122	161
125°	227	269	451	784	910	202
135°	266	318	446	659	754	206
145°	304	350	444	551	602	191
155°	346	374	431	487	506	159
165°	377	388	412	437	444	106
175°	393	393	396	402	400	37
180°	394	394	394	394	394	

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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°	0.8	10.2	25.7	24.6	25.0
92.5°	11.4	36.0	116.5	53.8	46.2
95°	26.5	65.1	296.7	112.0	86.3
97.5°	39.4	85.9	483.6	224.8	144.5
100°	58.3	105.2	597.8	447.6	270.9
102.5°	75.7	122.6	601.6	756.8	528.2
105°	92.3	139.2	560.8	1002.3	852.9
107.5°	110.5	155.9	522.9	1091.2	1071.6
110°	128.7	172.9	497.2	1076.9	1160.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	145.3	189.2	480.5	1028.1	1159.4
115°	162.7	205.4	469.2	968.3	1122.3
117.5°	180.9	221.7	463.1	911.2	1066.3
120°	197.5	237.6	457.8	860.0	1012.6
122.5°	213.4	253.9	454.8	820.4	956.6
125°	227.0	268.6	451.0	784.4	910.4
127.5°	238.4	282.6	448.8	753.8	867.3
130°	248.2	295.1	447.2	722.7	831.7
132.5°	257.3	307.2	446.5	690.6	794.6
135°	266.4	317.8	445.7	659.2	754.5
137.5°	274.7	327.0	445.7	627.3	715.9
140°	284.5	335.2	445.0	599.4	675.8
142.5°	294.4	342.0	445.0	572.4	635.7
145°	304.2	349.6	443.5	550.6	602.4
147.5°	314.8	355.6	441.2	531.2	572.9
150°	325.4	361.7	438.9	514.6	547.1
152.5°	336.0	367.8	435.1	500.6	525.2
155°	345.8	373.5	430.6	487.0	506.3
157.5°	354.2	378.0	426.1	474.1	489.6
160°	362.5	382.5	421.5	461.2	473.7
162.5°	370.8	386.0	417.7	449.1	458.6
165°	376.9	388.2	412.4	437.4	444.2
167.5°	382.2	390.5	407.9	426.8	430.6
170°	387.5	391.6	404.1	417.0	418.5
172.5°	390.5	392.8	399.6	408.3	408.7
175°	392.8	393.2	396.5	401.5	400.3
177.5°	394.3	393.5	393.5	396.5	394.3
180°	393.5	393.5	393.5	393.5	393.5

(END OF REPORT)