

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: P999419

Luminaire Tested: SA2XXRDIP-B1005D725UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999419
REPORT IS A COMBINATION OF REPORTS P987970 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B1005D725UB40-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

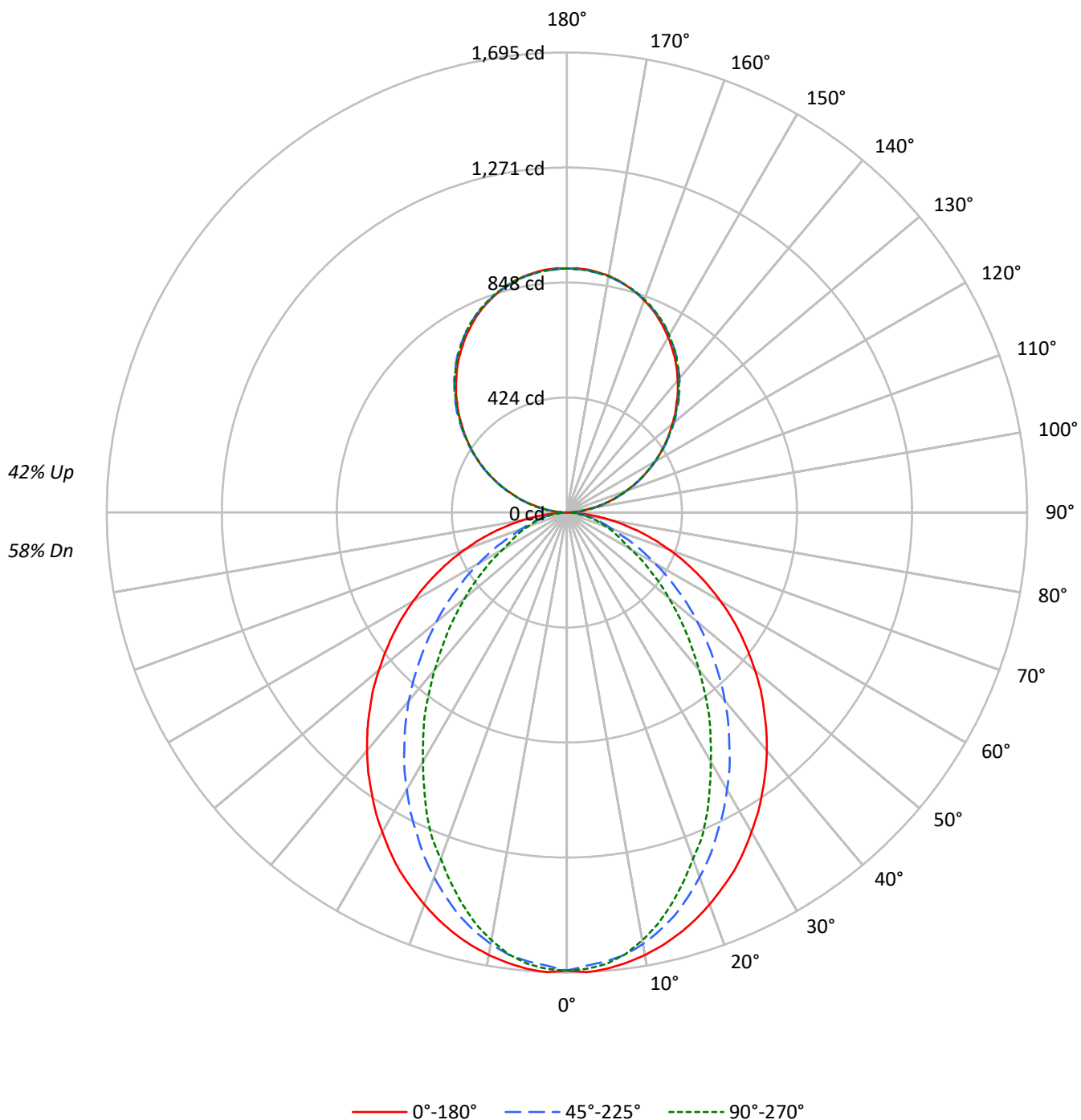
Lumens per Lamp: N/A
Luminaire Lumens: 5988.0 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 82.4
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63
1	100	96	92	89	93	90	86	84	78	75	73	67	65	64	57	56	55
2	92	84	79	74	85	79	74	69	69	65	62	60	57	54	51	49	47
3	84	75	68	62	78	70	64	59	61	56	52	53	49	46	46	43	41
4	77	67	59	53	72	63	56	50	55	49	45	48	44	40	41	38	35
5	71	60	52	46	66	56	49	44	49	44	39	43	39	35	37	34	31
6	66	54	46	40	61	51	44	38	45	39	35	39	35	31	34	31	28
7	61	49	41	35	57	46	39	34	41	35	31	36	31	28	31	28	25
8	57	44	37	32	53	42	35	30	37	32	28	33	28	25	29	25	23
9	53	41	33	28	49	39	32	27	34	29	25	30	26	23	27	23	21
10	50	38	30	26	46	36	29	25	32	26	23	28	24	21	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26715	26715	26715
5°	26759	25416	25228
10°	26494	24106	23311
15°	26130	22559	21124
20°	25649	20799	18839
25°	25156	18994	16748
30°	24492	17236	14463
35°	23844	15464	12501
40°	23184	13722	10481
45°	22417	11925	8719
50°	21623	10191	7098
55°	20797	8460	5635
60°	19836	6765	4264
65°	18731	5159	3465
70°	17396	3742	2756
75°	15719	2854	2105
80°	13293	1932	1413
85°	9281	884	682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22417 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	2.6
10°-20°	434.2	7.3
20°-30°	609.6	10.2
30°-40°	664.5	11.1
40°-50°	610.8	10.2
50°-60°	479.7	8.0
60°-70°	312.2	5.2
70°-80°	160.7	2.7
80°-90°	43.6	0.7
90°-100°	55.6	0.9
100°-110°	176.9	3.0
110°-120°	302.6	5.1
120°-130°	398.0	6.6
130°-140°	446.8	7.5
140°-150°	438.1	7.3
150°-160°	367.5	6.1
160°-170°	243.7	4.1
170°-180°	85.2	1.4
0°-30°	1202.0	20.1
0°-40°	1866.6	31.2
0°-60°	2957.0	49.4
0°-90°	3473.6	58.0
90°-120°	535.2	8.9
90°-150°	1818.0	30.4
90°-180°	2514.0	42.0
0°-180°	5988.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1688	1688	1688	1688	1688	
5°	1688	1680	1660	1674	1669	160
15°	1605	1588	1536	1508	1492	452
25°	1457	1408	1307	1245	1222	670
35°	1256	1178	1043	947	913	786
45°	1026	924	764	655	619	793
55°	780	661	496	405	376	697
65°	527	403	266	214	209	522
75°	281	174	122	112	110	297
85°	66	34	29	29	29	75
90°	1	10	27	25	26	6
95°	40	47	49	49	47	44
105°	163	166	167	168	168	172
115°	304	308	307	306	304	300
125°	442	448	446	444	443	395
135°	572	580	581	581	578	442
145°	694	699	704	704	701	433
155°	793	795	798	802	799	365
165°	863	862	862	868	864	243
175°	898	896	894	899	895	85
180°	899	899	899	899	899	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1687.7	1687.7	1687.7	1687.7	1687.7
2.5°	1695.4	1687.7	1670.9	1686.2	1683.1
5°	1687.7	1680.1	1660.2	1674.0	1669.4
7.5°	1674.0	1664.8	1643.4	1649.5	1641.9
10°	1655.6	1644.9	1614.4	1609.8	1600.7
12.5°	1632.7	1619.0	1577.7	1568.6	1551.8
15°	1605.2	1588.4	1536.5	1507.5	1492.2
17.5°	1573.2	1548.7	1484.6	1451.0	1426.5
20°	1536.5	1506.0	1429.6	1391.4	1357.8
22.5°	1496.8	1461.7	1373.1	1321.2	1298.2
25°	1457.1	1408.2	1307.4	1244.8	1221.9
27.5°	1409.7	1357.8	1246.3	1174.5	1139.4
30°	1359.3	1301.3	1179.1	1101.2	1060.0
32.5°	1310.5	1240.2	1115.0	1023.3	985.1
35°	1255.5	1177.6	1043.2	947.0	913.4
37.5°	1202.0	1118.0	976.0	870.6	832.4
40°	1145.5	1053.9	905.7	797.3	757.6
42.5°	1087.5	989.7	835.5	722.4	684.2
45°	1026.4	924.0	763.7	655.2	618.6
47.5°	968.3	859.9	694.9	586.5	552.9
50°	904.2	795.7	627.7	522.4	490.3
52.5°	841.6	727.0	563.6	462.8	433.8
55°	780.5	661.3	496.4	404.7	375.7
57.5°	717.9	595.7	436.8	351.3	326.9
60°	653.7	531.5	374.2	296.3	271.9
62.5°	591.1	468.9	320.7	247.4	235.2
65°	526.9	403.2	265.8	213.8	209.2
67.5°	465.8	342.1	213.8	187.9	183.3
70°	401.7	282.6	177.2	161.9	155.8
72.5°	340.6	227.6	148.2	135.9	132.9
75°	281.0	174.1	122.2	111.5	110.0
77.5°	221.5	123.7	96.2	90.1	87.1
80°	166.5	88.6	73.3	67.2	67.2
82.5°	116.1	59.6	50.4	47.3	47.3
85°	65.7	33.6	29.0	29.0	29.0
87.5°	24.4	12.2	12.2	10.7	10.7
90°	0.8	9.9	26.6	25.0	25.8
92.5°	16.7	22.8	23.5	24.3	24.3
95°	39.5	47.1	48.6	48.6	47.1
97.5°	66.0	72.9	75.9	75.9	75.9
100°	96.4	102.5	104.7	104.7	104.0
102.5°	128.3	132.8	135.9	136.6	135.9
105°	163.2	165.5	167.0	168.5	168.5
107.5°	198.1	201.1	201.1	201.9	198.1
110°	231.5	236.0	236.0	236.0	233.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	267.9	272.5	271.7	269.4	267.9
115°	303.6	308.1	306.6	305.9	303.6
117.5°	339.3	345.3	341.5	339.3	337.0
120°	374.9	381.0	374.9	374.9	372.6
122.5°	407.6	415.1	411.4	409.1	407.6
125°	441.7	448.5	446.3	444.0	443.2
127.5°	475.1	483.5	480.4	477.4	475.1
130°	506.2	516.1	514.6	513.1	510.0
132.5°	541.1	548.7	549.5	545.7	543.4
135°	571.5	579.8	581.4	580.6	578.3
137.5°	604.9	611.7	613.2	612.5	609.4
140°	634.5	641.3	645.1	645.1	642.1
142.5°	664.8	671.7	674.0	674.7	671.7
145°	693.7	699.0	703.6	704.3	701.3
147.5°	719.5	726.3	729.4	730.9	727.8
150°	746.1	750.6	753.6	755.9	753.6
152.5°	769.6	774.1	777.9	781.0	777.9
155°	793.1	795.4	797.7	801.5	799.2
157.5°	813.6	815.1	816.6	821.9	818.2
160°	831.8	833.3	834.1	838.6	835.6
162.5°	848.5	848.5	849.3	854.6	850.8
165°	862.9	862.2	862.2	867.5	863.7
167.5°	875.8	873.6	873.6	878.9	875.1
170°	885.7	883.4	882.7	888.0	883.4
172.5°	892.5	890.3	889.5	894.8	890.3
175°	897.8	895.6	894.0	899.4	894.8
177.5°	900.9	898.6	897.1	901.6	897.1
180°	899.4	899.4	899.4	899.4	899.4

(END OF REPORT)