

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: P1012179

Luminaire Tested: S123RDIP-B1000D365UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012179
REPORT IS A COMBINATION OF REPORTS P992804 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D365UB27-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

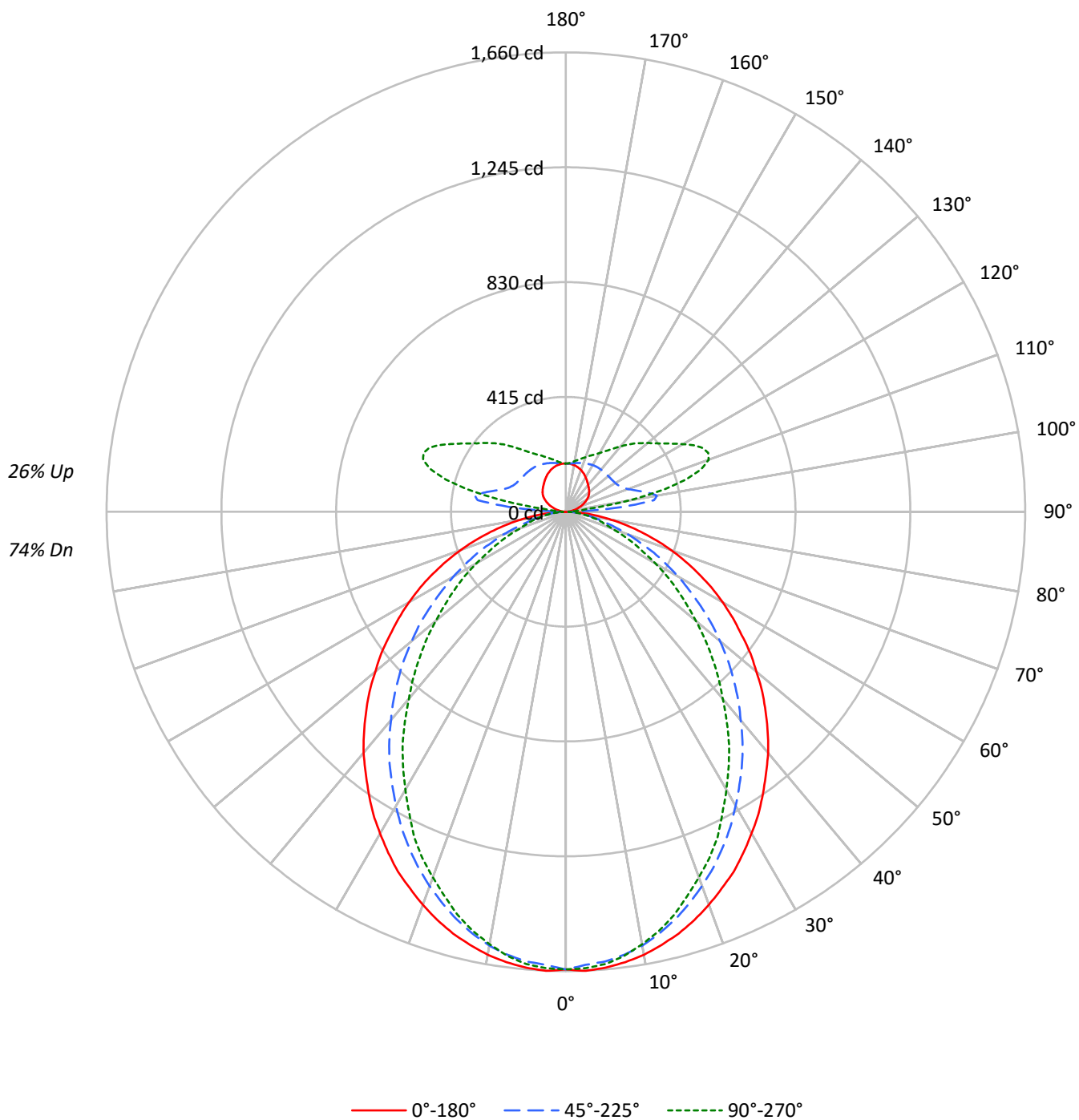
Lumens per Lamp: N/A
Luminaire Lumens: 5050.0 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78
1	104	99	96	92	98	95	91	88	86	83	81	77	75	74	70	68	67
2	95	87	81	76	90	83	78	73	76	71	68	69	65	62	62	60	57
3	87	77	70	64	82	74	67	62	67	62	57	61	57	53	55	52	49
4	80	69	61	55	76	66	59	53	60	54	49	55	50	46	50	46	43
5	73	62	53	47	70	59	52	46	54	48	43	49	44	40	45	41	38
6	68	56	47	41	64	53	46	40	49	43	38	45	40	36	41	37	33
7	63	51	42	37	60	48	41	36	45	38	34	41	36	32	38	33	30
8	59	46	38	33	56	44	37	32	41	35	30	38	32	29	35	30	27
9	55	42	35	29	52	41	34	29	38	32	27	35	30	26	32	28	24
10	51	39	32	27	49	38	31	26	35	29	25	32	27	24	30	25	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17800	17800	17800
5°	17829	17170	17124
10°	17689	16525	16199
15°	17460	15727	15186
20°	17158	14859	14055
25°	16848	13958	12981
30°	16449	12998	11714
35°	16039	12056	10560
40°	15652	11032	9284
45°	15159	10031	8138
50°	14612	8963	6950
55°	14046	7819	5863
60°	13505	6646	4759
65°	12807	5442	3714
70°	11927	4115	2654
75°	10662	2788	2104
80°	9099	1937	1475
85°	6829	1047	774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15159 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	3.1
10°-20°	432.5	8.6
20°-30°	622.7	12.3
30°-40°	701.2	13.9
40°-50°	670.7	13.3
50°-60°	549.1	10.9
60°-70°	370.2	7.3
70°-80°	185.7	3.7
80°-90°	49.5	1.0
90°-100°	99.0	2.0
100°-110°	276.6	5.5
110°-120°	269.7	5.3
120°-130°	214.8	4.3
130°-140°	169.5	3.4
140°-150°	126.5	2.5
150°-160°	88.2	1.7
160°-170°	51.8	1.0
170°-180°	16.9	0.3
0°-30°	1210.6	24.0
0°-40°	1911.8	37.9
0°-60°	3131.6	62.0
0°-90°	3737.0	74.0
90°-120°	645.3	12.8
90°-150°	1156.1	22.9
90°-180°	1313.0	26.0
0°-180°	5050.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1654	1647	1631	1643	1640	157
15°	1577	1562	1525	1518	1509	444
25°	1435	1402	1340	1312	1297	660
35°	1242	1194	1110	1053	1029	777
45°	1021	960	857	781	748	788
55°	775	710	596	518	491	695
65°	530	456	351	286	271	524
75°	280	216	142	129	126	299
85°	71	42	38	35	35	78
90°	1	4	9	10	10	5
95°	12	39	209	61	41	13
105°	41	60	283	496	448	43
115°	72	90	217	475	545	72
125°	100	119	202	367	430	89
135°	118	140	200	302	349	91
145°	134	154	197	248	272	84
155°	153	165	191	217	226	70
165°	167	172	183	194	197	47
175°	174	174	175	178	177	17
180°	174	174	174	174	174	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1653.7	1653.7	1653.7	1653.7	1653.7
2.5°	1660.4	1655.0	1638.9	1653.7	1651.0
5°	1653.7	1647.0	1630.9	1643.0	1640.3
7.5°	1641.6	1634.9	1614.8	1622.9	1618.8
10°	1625.5	1616.1	1592.0	1593.3	1586.6
12.5°	1602.7	1592.0	1561.2	1559.8	1551.8
15°	1577.3	1562.5	1524.9	1518.2	1508.8
17.5°	1546.4	1530.3	1483.4	1470.0	1456.5
20°	1511.5	1490.1	1439.1	1421.7	1405.6
22.5°	1472.6	1447.2	1392.2	1369.4	1354.6
25°	1435.1	1401.6	1339.9	1311.7	1296.9
27.5°	1389.5	1353.3	1286.2	1248.7	1225.9
30°	1342.5	1302.3	1227.2	1181.6	1160.1
32.5°	1295.6	1248.7	1168.2	1117.2	1094.4
35°	1242.0	1193.7	1110.5	1052.8	1028.7
37.5°	1188.3	1136.0	1048.8	984.4	954.9
40°	1137.3	1078.3	983.1	913.4	882.5
42.5°	1079.7	1020.7	921.4	843.6	816.8
45°	1020.7	960.3	857.0	780.6	748.4
47.5°	963.0	895.9	794.0	710.8	682.7
50°	898.6	835.6	726.9	643.8	612.9
52.5°	840.9	771.2	663.9	576.7	549.9
55°	775.2	709.5	595.5	517.7	490.9
57.5°	716.2	645.1	529.8	456.0	433.2
60°	654.5	580.7	469.4	397.0	374.2
62.5°	592.8	519.0	407.7	340.7	316.5
65°	529.8	456.0	351.4	285.7	270.9
67.5°	466.7	391.6	289.7	240.1	224.0
70°	405.0	332.6	238.7	191.8	177.0
72.5°	343.3	272.3	189.1	152.9	148.9
75°	280.3	215.9	142.2	128.8	126.1
77.5°	222.6	163.6	111.3	103.3	100.6
80°	167.6	112.7	84.5	80.5	77.8
82.5°	115.3	69.7	60.4	56.3	56.3
85°	71.1	41.6	37.6	34.9	34.9
87.5°	32.2	17.4	17.4	16.1	14.8
90°	0.7	4.2	8.8	9.8	10.2
92.5°	5.3	21.2	65.6	22.4	18.7
95°	12.0	39.0	209.1	61.0	40.9
97.5°	19.0	44.6	321.5	153.4	83.9
100°	26.1	49.2	333.9	320.8	221.0
102.5°	33.5	54.4	310.9	429.6	350.1
105°	40.9	60.4	283.4	495.7	448.4
107.5°	48.7	67.5	259.1	524.8	512.6
110°	57.1	74.8	239.0	525.6	549.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	64.9	82.4	225.6	505.8	556.7
115°	72.3	90.0	216.8	475.4	545.4
117.5°	79.7	97.5	210.8	443.0	520.7
120°	87.4	104.9	206.9	412.3	488.3
122.5°	94.1	112.0	204.5	388.2	458.0
125°	100.5	118.6	202.4	366.6	430.1
127.5°	105.4	125.0	201.3	349.0	406.1
130°	110.0	130.6	200.2	332.8	386.4
132.5°	113.5	135.7	199.9	317.6	367.0
135°	117.8	140.4	199.5	302.0	348.7
137.5°	121.6	144.4	198.8	287.2	329.3
140°	125.5	147.9	198.5	272.7	308.8
142.5°	129.7	151.0	197.8	259.4	289.8
145°	134.3	153.9	197.1	247.7	272.5
147.5°	138.9	156.9	196.0	238.5	257.7
150°	143.5	159.4	194.6	230.4	245.0
152.5°	148.1	162.0	192.8	223.4	234.4
155°	152.7	164.6	190.7	216.8	226.0
157.5°	156.2	167.0	189.0	210.4	217.9
160°	160.4	168.8	186.8	204.6	210.1
162.5°	163.6	170.3	184.7	199.1	203.1
165°	166.8	171.5	182.6	193.7	197.1
167.5°	169.2	172.6	180.5	189.0	191.1
170°	171.3	173.1	178.4	184.8	185.8
172.5°	172.7	173.6	176.6	181.0	180.9
175°	173.8	174.0	175.2	177.7	177.3
177.5°	174.5	174.2	174.2	175.6	174.9
180°	174.2	174.2	174.2	174.2	174.2

(END OF REPORT)