

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: P1012191

Luminaire Tested: S123RDIP-B1000D365UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012191
REPORT IS A COMBINATION OF REPORTS P992826 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D365UB35-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

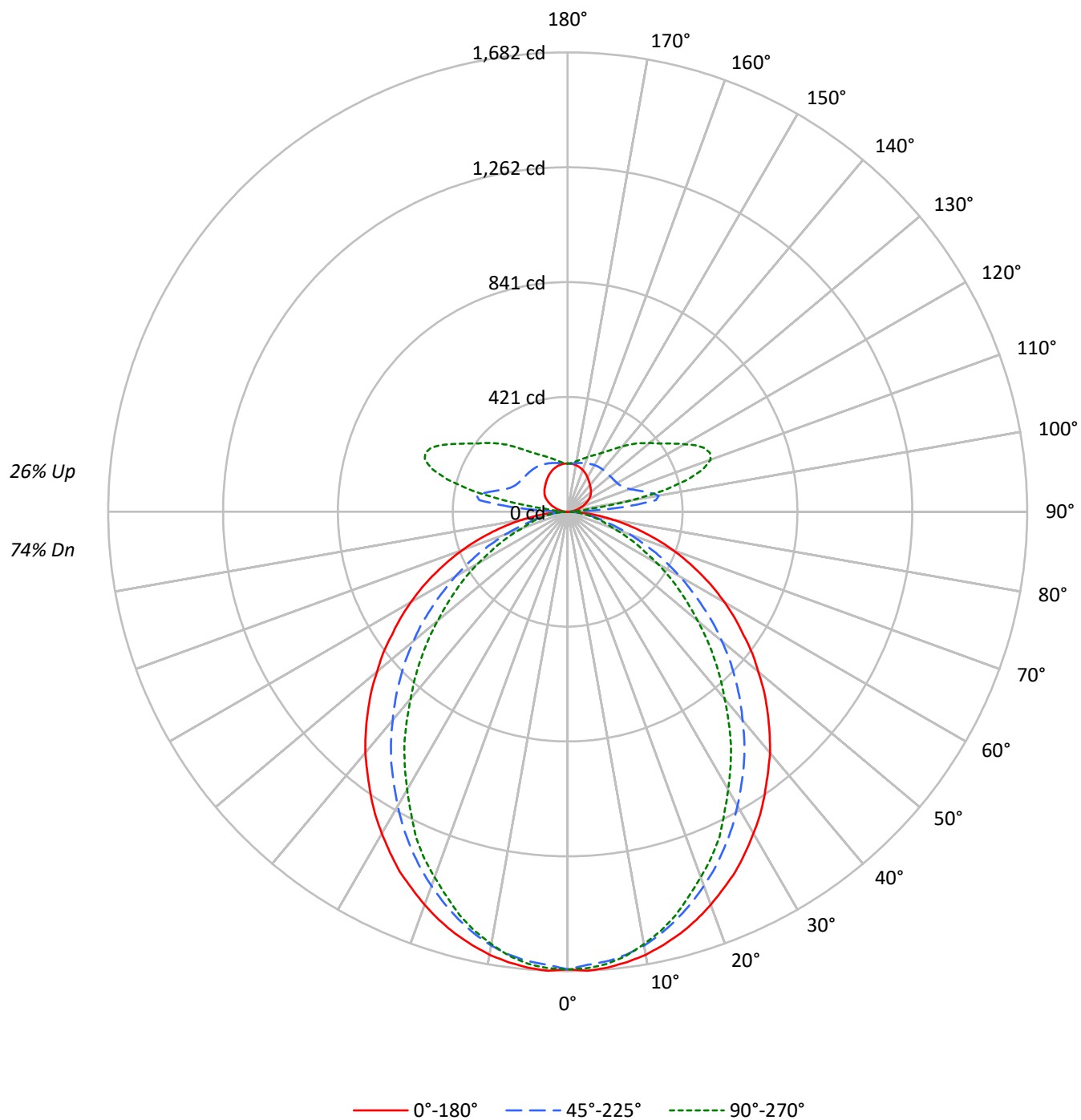
Lumens per Lamp: N/A
Luminaire Lumens: 5116.1 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	18034	18034	18034
5°	18063	17396	17349
10°	17922	16742	16411
15°	17688	15933	15385
20°	17384	15054	14239
25°	17069	14140	13153
30°	16664	13168	11868
35°	16249	12214	10698
40°	15859	11177	9406
45°	15356	10163	8244
50°	14804	9081	7042
55°	14231	7922	5939
60°	13683	6734	4821
65°	12974	5514	3763
70°	12086	4170	2690
75°	10803	2823	2130
80°	9218	1962	1494
85°	6916	1058	782

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15356 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	3.1
10°-20°	438.1	8.6
20°-30°	630.8	12.3
30°-40°	710.4	13.9
40°-50°	679.5	13.3
50°-60°	556.3	10.9
60°-70°	375.0	7.3
70°-80°	188.1	3.7
80°-90°	50.2	1.0
90°-100°	100.2	2.0
100°-110°	280.2	5.5
110°-120°	273.2	5.3
120°-130°	217.6	4.3
130°-140°	171.7	3.4
140°-150°	128.1	2.5
150°-160°	89.4	1.7
160°-170°	52.5	1.0
170°-180°	17.1	0.3
0°-30°	1226.5	24.0
0°-40°	1936.9	37.9
0°-60°	3172.7	62.0
0°-90°	3786.0	74.0
90°-120°	653.7	12.8
90°-150°	1171.1	22.9
90°-180°	1330.0	26.0
0°-180°	5116.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1675	1669	1652	1664	1662	159
15°	1598	1583	1545	1538	1529	450
25°	1454	1420	1357	1329	1314	669
35°	1258	1209	1125	1067	1042	788
45°	1034	973	868	791	758	798
55°	785	719	603	524	497	704
65°	537	462	356	289	274	531
75°	284	219	144	130	128	303
85°	72	42	38	35	35	79
90°	1	4	9	10	10	5
95°	12	39	212	62	41	13
105°	41	61	287	502	454	44
115°	73	91	220	482	552	72
125°	102	120	205	371	436	90
135°	119	142	202	306	353	92
145°	136	156	200	251	276	85
155°	155	167	193	220	229	71
165°	169	174	185	196	200	48
175°	176	176	178	180	180	17
180°	176	176	176	176	176	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1675.4	1675.4	1675.4	1675.4	1675.4
2.5°	1682.2	1676.7	1660.4	1675.4	1672.7
5°	1675.4	1668.6	1652.3	1664.5	1661.8
7.5°	1663.2	1656.4	1636.0	1644.1	1640.1
10°	1646.9	1637.3	1612.9	1614.2	1607.4
12.5°	1623.8	1612.9	1581.6	1580.3	1572.1
15°	1597.9	1583.0	1544.9	1538.2	1528.6
17.5°	1566.7	1550.4	1502.8	1489.2	1475.6
20°	1531.4	1509.6	1458.0	1440.3	1424.0
22.5°	1492.0	1466.1	1410.4	1387.3	1372.4
25°	1453.9	1419.9	1357.4	1328.9	1314.0
27.5°	1407.7	1371.0	1303.1	1265.0	1241.9
30°	1360.1	1319.4	1243.3	1197.1	1175.4
32.5°	1312.6	1265.0	1183.5	1131.9	1108.8
35°	1258.2	1209.3	1125.1	1066.7	1042.2
37.5°	1203.9	1150.9	1062.6	997.4	967.5
40°	1152.3	1092.5	996.0	925.3	894.1
42.5°	1093.8	1034.0	933.5	854.7	827.5
45°	1034.0	972.9	868.3	790.8	758.2
47.5°	975.6	907.7	804.4	720.2	691.6
50°	910.4	846.5	736.5	652.2	621.0
52.5°	852.0	781.3	672.6	584.3	557.1
55°	785.4	718.8	603.3	524.5	497.3
57.5°	725.6	653.6	536.7	462.0	438.9
60°	663.1	588.4	475.6	402.2	379.1
62.5°	600.6	525.9	413.1	345.1	320.7
65°	536.7	462.0	356.0	289.4	274.5
67.5°	472.9	396.8	293.5	243.2	226.9
70°	410.4	337.0	241.9	194.3	179.4
72.5°	347.9	275.8	191.6	154.9	150.8
75°	284.0	218.8	144.0	130.4	127.7
77.5°	225.6	165.8	112.8	104.6	101.9
80°	169.8	114.1	85.6	81.5	78.8
82.5°	116.9	70.7	61.1	57.1	57.1
85°	72.0	42.1	38.0	35.3	35.3
87.5°	32.6	17.7	17.7	16.3	14.9
90°	0.7	4.2	8.9	10.0	10.4
92.5°	5.4	21.4	66.4	22.6	18.9
95°	12.1	39.4	211.8	61.8	41.4
97.5°	19.3	45.2	325.7	155.4	85.0
100°	26.4	49.8	338.2	325.0	223.9
102.5°	33.9	55.2	315.0	435.2	354.6
105°	41.4	61.2	287.1	502.2	454.3
107.5°	49.3	68.4	262.5	531.6	519.3
110°	57.9	75.7	242.1	532.5	556.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.7	83.4	228.6	512.2	563.9
115°	73.2	91.2	219.6	481.6	552.5
117.5°	80.7	98.8	213.6	448.7	527.5
120°	88.6	106.2	209.6	417.6	494.6
122.5°	95.4	113.4	207.1	393.2	463.9
125°	101.8	120.2	205.0	371.4	435.7
127.5°	106.8	126.6	203.9	353.6	411.4
130°	111.4	132.3	202.8	337.2	391.4
132.5°	115.0	137.4	202.5	321.8	371.8
135°	119.3	142.3	202.1	305.8	353.2
137.5°	123.2	146.2	201.4	290.9	333.5
140°	127.1	149.8	201.1	276.2	312.8
142.5°	131.4	153.0	200.3	262.8	293.6
145°	136.1	155.9	199.6	250.9	276.1
147.5°	140.7	158.9	198.6	241.6	261.1
150°	145.3	161.4	197.1	233.4	248.2
152.5°	150.0	164.1	195.3	226.2	237.5
155°	154.6	166.8	193.2	219.6	228.9
157.5°	158.2	169.1	191.4	213.2	220.7
160°	162.5	171.0	189.3	207.4	212.8
162.5°	165.7	172.5	187.1	201.8	205.7
165°	168.9	173.8	185.0	196.2	199.6
167.5°	171.4	174.8	182.8	191.4	193.6
170°	173.6	175.4	180.7	187.2	188.2
172.5°	175.0	175.9	178.9	183.4	183.2
175°	176.1	176.2	177.5	180.0	179.6
177.5°	176.8	176.4	176.4	177.8	177.1
180°	176.4	176.4	176.4	176.4	176.4

(END OF REPORT)