

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: P1012237

Luminaire Tested: S123RDIP-B1000D805UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012237
REPORT IS A COMBINATION OF REPORTS P992884 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D805UB27-4F0-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

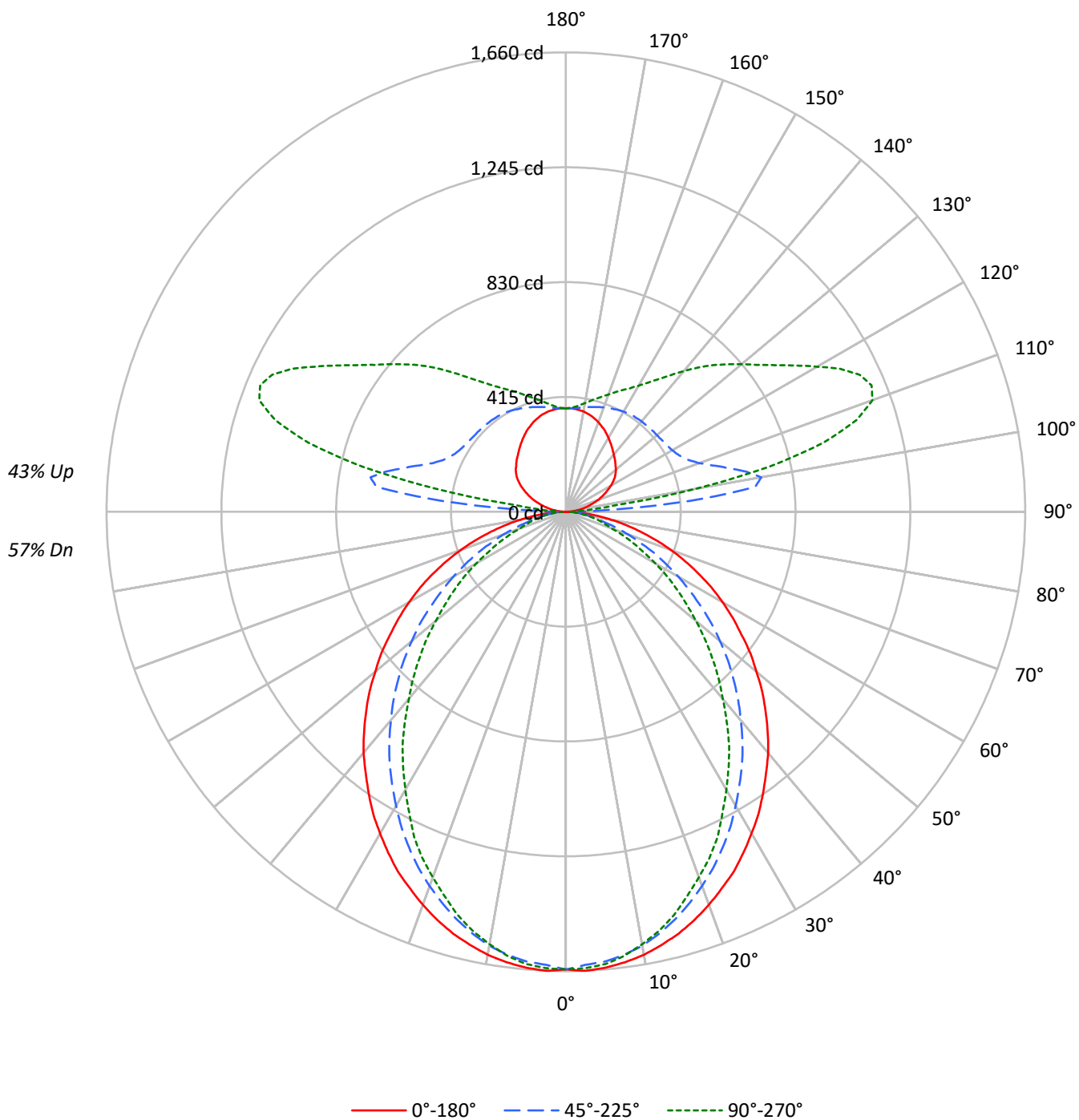
Lumens per Lamp: N/A
Luminaire Lumens: 6557.6 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	63	63	63
1	100	96	92	88	93	89	86	83	77	75	72	66	64	63	56	55	54
2	91	84	78	73	85	78	73	69	68	64	61	58	56	53	50	48	46
3	83	74	67	61	77	69	63	58	60	55	51	52	48	45	44	42	39
4	76	66	58	52	71	62	55	49	54	48	44	47	42	39	40	37	34
5	70	59	51	45	65	55	48	43	48	43	38	42	38	34	36	33	30
6	65	53	45	39	60	50	42	37	44	38	34	38	34	30	33	29	27
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	30	26	24
8	56	44	36	31	52	41	34	29	36	31	27	32	27	24	28	24	21
9	52	40	32	27	49	38	31	26	33	28	24	29	25	22	26	22	19
10	49	37	29	25	45	35	28	24	31	25	22	27	23	20	24	20	18

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	2.4
10°-20°	432.5	6.6
20°-30°	622.7	9.5
30°-40°	701.2	10.7
40°-50°	670.7	10.2
50°-60°	549.1	8.4
60°-70°	370.2	5.6
70°-80°	185.7	2.8
80°-90°	50.6	0.8
90°-100°	212.5	3.2
100°-110°	594.0	9.1
110°-120°	579.2	8.8
120°-130°	461.2	7.0
130°-140°	364.0	5.6
140°-150°	271.6	4.1
150°-160°	189.5	2.9
160°-170°	111.3	1.7
170°-180°	36.2	0.6
0°-30°	1210.6	18.5
0°-40°	1911.8	29.2
0°-60°	3131.6	47.8
0°-90°	3738.1	57.0
90°-120°	1385.7	21.1
90°-150°	2482.5	37.9
90°-180°	2819.0	43.0
0°-180°	6557.6	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°	2	9	19	21	22	6
95°	26	84	449	131	88	27
105°	88	130	609	1064	963	93
115°	155	193	466	1021	1171	154
125°	216	255	434	787	924	192
135°	253	302	428	648	749	195
145°	288	330	423	532	585	181
155°	328	354	410	466	485	151
165°	358	368	392	416	423	101
175°	373	374	376	382	381	35
180°	374	374	374	374	374	

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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°	1.5	9.0	18.9	21.2	22.0
92.5°	11.4	45.4	140.8	48.0	40.1
95°	25.7	83.6	448.9	131.0	87.8
97.5°	40.9	95.8	690.4	329.2	180.2
100°	56.0	105.6	716.9	688.8	474.6
102.5°	71.9	117.0	667.7	922.4	751.7
105°	87.8	129.8	608.6	1064.4	962.9
107.5°	104.5	145.0	556.4	1126.8	1100.7
110°	122.6	160.5	513.2	1128.7	1179.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	139.3	176.8	484.5	1086.0	1195.3
115°	155.2	193.4	465.6	1020.8	1171.1
117.5°	171.1	209.3	452.7	951.2	1118.1
120°	187.7	225.2	444.4	885.3	1048.4
122.5°	202.1	240.4	439.1	833.4	983.3
125°	215.7	254.7	434.5	787.3	923.5
127.5°	226.3	268.4	432.2	749.4	872.1
130°	236.2	280.4	430.0	714.6	829.7
132.5°	243.8	291.5	429.2	682.0	788.0
135°	252.8	301.6	428.5	648.3	748.7
137.5°	261.2	310.0	426.9	616.6	707.0
140°	269.5	317.6	426.2	585.6	663.1
142.5°	278.6	324.4	424.7	557.2	622.2
145°	288.4	330.4	423.2	531.8	585.2
147.5°	298.3	336.8	420.9	512.2	553.4
150°	308.1	342.2	417.9	494.7	526.1
152.5°	317.9	347.8	414.1	479.6	503.4
155°	327.8	353.5	409.5	465.6	485.2
157.5°	335.3	358.5	405.7	451.9	467.8
160°	344.4	362.6	401.2	439.4	451.2
162.5°	351.2	365.6	396.7	427.7	436.0
165°	358.1	368.2	392.1	416.0	423.2
167.5°	363.4	370.5	387.6	405.8	410.3
170°	367.9	371.6	383.0	396.6	398.9
172.5°	370.9	372.8	379.3	388.7	388.3
175°	373.2	373.6	376.2	381.5	380.8
177.5°	374.7	374.0	374.0	377.0	375.5
180°	374.0	374.0	374.0	374.0	374.0

(END OF REPORT)