

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: P1011971

Luminaire Tested: S123DIP-B775D1195UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011971
REPORT IS A COMBINATION OF REPORTS P990325 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D1195UB40-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

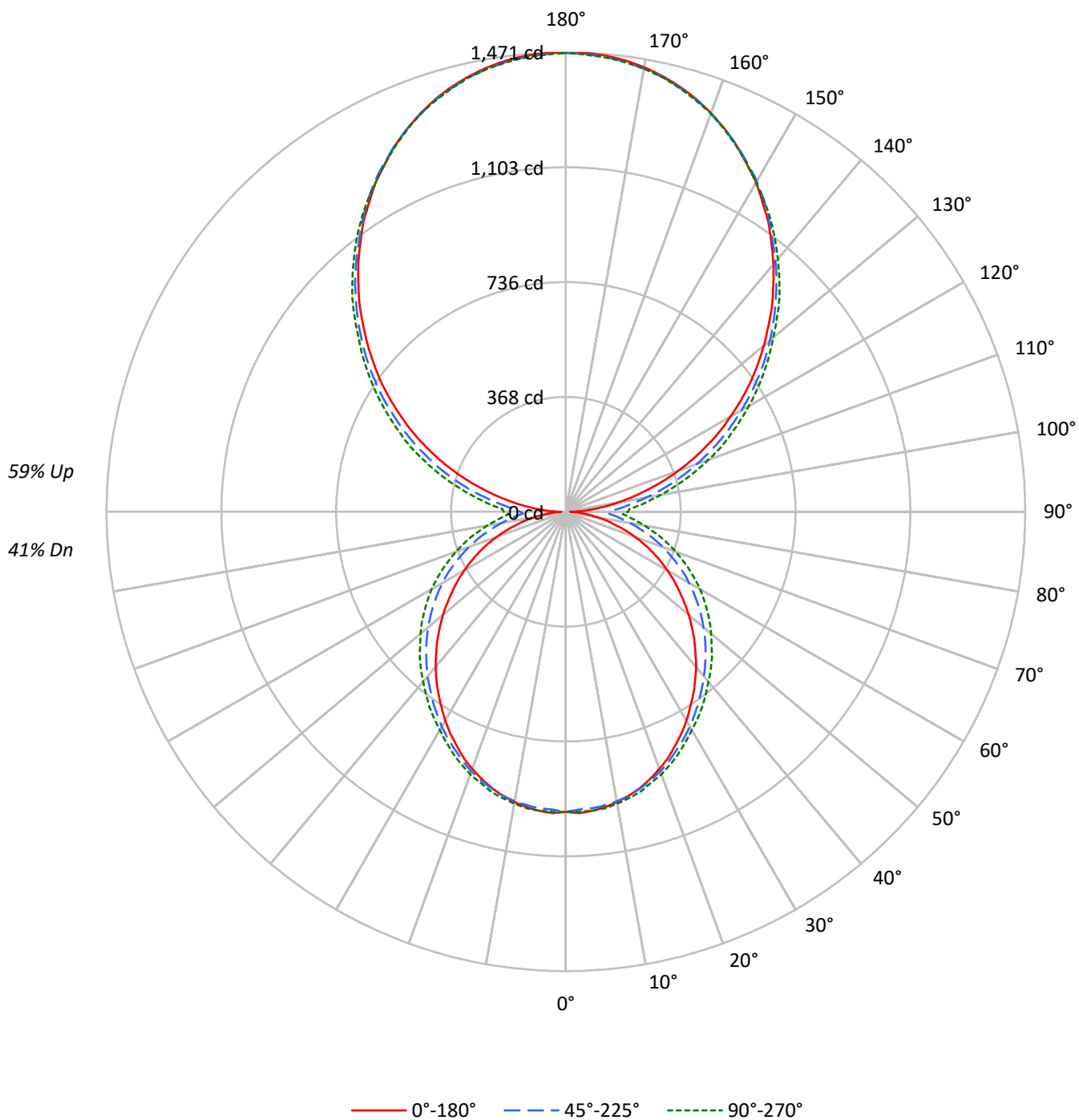
Lumens per Lamp: N/A
Luminaire Lumens: 7304.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 70.9
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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47
1	95	90	86	82	86	82	79	75	67	65	62	53	52	50	41	39	38
2	86	78	72	66	78	71	66	61	58	54	51	46	43	41	35	33	32
3	78	68	61	55	71	62	56	51	51	46	42	41	37	34	31	29	27
4	71	60	52	46	65	55	48	43	45	40	36	36	32	29	27	25	23
5	65	54	45	39	59	49	42	36	40	35	31	32	28	25	25	22	20
6	60	48	40	34	54	44	37	31	36	31	27	29	25	22	22	19	17
7	55	43	35	30	50	40	32	27	33	27	23	26	22	19	20	17	15
8	51	39	31	26	47	36	29	24	30	24	21	24	20	17	19	16	13
9	48	36	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12
10	45	33	25	21	41	30	23	19	25	20	16	20	16	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10342	10342	10342
5°	10370	10039	10030
10°	10273	9766	9692
15°	10137	9466	9333
20°	9944	9132	8948
25°	9706	8754	8548
30°	9464	8414	8147
35°	9191	8055	7821
40°	8931	7728	7476
45°	8642	7412	7193
50°	8357	7097	6883
55°	8041	6775	6600
60°	7732	6446	6309
65°	7414	6095	5969
70°	6935	5701	5618
75°	6330	5252	5255
80°	5624	4797	4844
85°	4928	4431	4546

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8642 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	1.2
10°-20°	259.8	3.6
20°-30°	388.5	5.3
30°-40°	463.9	6.4
40°-50°	485.4	6.6
50°-60°	455.5	6.2
60°-70°	380.5	5.2
70°-80°	272.0	3.7
80°-90°	165.0	2.3
90°-100°	196.3	2.7
100°-110°	361.1	4.9
110°-120°	537.4	7.4
120°-130°	669.7	9.2
130°-140°	733.6	10.0
140°-150°	711.3	9.7
150°-160°	596.6	8.2
160°-170°	397.2	5.4
170°-180°	139.1	1.9
0°-30°	739.5	10.1
0°-40°	1203.4	16.5
0°-60°	2144.3	29.4
0°-90°	2961.7	40.5
90°-120°	1094.8	15.0
90°-150°	3209.4	43.9
90°-180°	4342.0	59.4
0°-180°	7304.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	961	961	961	961	961	
5°	962	960	954	962	961	91
15°	916	919	918	928	927	258
25°	827	837	840	854	854	381
35°	712	728	742	758	762	445
45°	582	607	633	653	662	449
55°	444	478	516	544	553	397
65°	307	348	394	425	435	303
75°	166	216	268	302	315	178
85°	51	104	159	195	205	53
90°	15	78	146	186	199	15
95°	80	128	189	226	236	84
105°	268	296	351	380	392	287
115°	496	512	547	574	581	491
125°	721	725	753	770	773	644
135°	934	940	950	964	967	719
145°	1131	1132	1136	1143	1143	706
155°	1294	1294	1295	1300	1292	596
165°	1410	1406	1406	1413	1405	398
175°	1466	1462	1462	1468	1460	139
180°	1470	1470	1470	1470	1470	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.8	960.8	960.8	960.8	960.8
2.5°	966.0	962.9	954.5	962.9	961.8
5°	961.8	959.7	953.5	961.8	960.8
7.5°	954.5	954.5	948.2	958.7	957.6
10°	944.0	946.1	940.9	951.4	949.3
12.5°	931.5	934.6	931.5	940.9	938.8
15°	915.8	918.9	917.9	928.3	927.3
17.5°	896.9	903.2	902.2	911.6	909.5
20°	876.0	882.3	884.4	893.8	894.9
22.5°	854.0	860.3	863.5	876.0	875.0
25°	826.8	837.3	840.4	854.0	854.0
27.5°	800.7	812.2	818.4	830.0	831.0
30°	772.4	786.0	794.4	806.9	806.9
32.5°	741.0	756.7	768.2	781.8	785.0
35°	711.7	728.4	742.0	757.7	761.9
37.5°	680.3	699.1	714.8	732.6	735.8
40°	648.9	667.7	688.7	706.5	710.6
42.5°	614.4	638.4	660.4	680.3	686.6
45°	581.9	607.0	633.2	653.1	661.5
47.5°	547.4	575.6	604.9	626.9	633.2
50°	513.9	543.2	575.6	599.7	607.0
52.5°	478.3	509.7	546.3	571.4	580.9
55°	443.8	478.3	516.0	544.2	552.6
57.5°	410.3	445.9	486.7	514.9	524.4
60°	374.7	412.4	455.3	484.6	496.1
62.5°	341.2	379.9	426.0	455.3	465.7
65°	306.7	347.5	393.5	424.9	435.4
67.5°	272.1	315.0	361.1	395.6	404.0
70°	235.5	280.5	330.7	364.2	374.7
72.5°	202.0	247.0	299.3	333.9	344.3
75°	166.4	215.6	267.9	302.5	315.0
77.5°	136.1	185.2	237.6	274.2	283.6
80°	103.6	154.9	209.3	244.9	255.4
82.5°	75.4	127.7	183.2	218.7	229.2
85°	51.3	103.6	159.1	194.7	205.1
87.5°	31.4	83.7	137.1	172.7	183.2
90°	14.8	77.6	146.0	186.2	198.9
92.5°	47.2	99.2	158.4	196.3	203.5
95°	79.6	128.5	189.0	226.1	236.5
97.5°	122.5	165.8	222.0	259.1	268.5
100°	166.4	206.8	260.8	294.6	307.4
102.5°	217.3	250.1	305.3	338.1	347.3
105°	268.1	295.6	350.9	380.2	391.9
107.5°	327.1	350.2	397.7	429.5	437.8
110°	381.5	402.6	446.8	478.6	484.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	439.2	455.0	494.8	526.7	536.1
115°	495.8	511.9	547.3	573.5	580.8
117.5°	554.7	564.3	597.5	622.6	627.6
120°	608.0	620.1	648.9	671.8	676.8
122.5°	664.5	671.2	701.3	720.9	724.8
125°	721.1	724.6	752.7	770.1	772.8
127.5°	774.2	780.2	804.1	818.0	820.7
130°	827.3	835.6	853.0	868.3	866.5
132.5°	879.5	888.7	902.1	915.1	916.7
135°	933.7	939.5	950.0	964.2	967.1
137.5°	983.3	988.0	998.9	1009.8	1011.6
140°	1034.2	1040.0	1044.3	1058.9	1056.0
142.5°	1081.5	1086.3	1088.6	1101.1	1100.5
145°	1131.2	1132.5	1135.9	1143.2	1142.8
147.5°	1172.9	1177.5	1181.0	1184.1	1181.3
150°	1217.9	1220.2	1222.5	1222.5	1217.7
152.5°	1254.8	1258.3	1259.5	1261.8	1256.0
155°	1294.1	1294.1	1295.2	1299.9	1291.8
157.5°	1327.6	1326.4	1327.6	1332.2	1325.3
160°	1358.7	1356.4	1356.4	1362.2	1357.6
162.5°	1386.4	1383.0	1384.1	1389.9	1381.8
165°	1409.5	1406.1	1406.1	1413.0	1404.9
167.5°	1429.2	1424.5	1425.7	1432.6	1425.7
170°	1445.3	1440.7	1440.7	1448.8	1440.7
172.5°	1458.0	1453.4	1453.4	1460.3	1452.2
175°	1466.1	1461.5	1461.5	1468.4	1460.3
177.5°	1470.7	1466.1	1466.1	1473.0	1464.9
180°	1469.6	1469.6	1469.6	1469.6	1469.6

(END OF REPORT)