

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: P1012101

Luminaire Tested: S123DIP-B775D805UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012101
REPORT IS A COMBINATION OF REPORTS P990506 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D805UB40-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

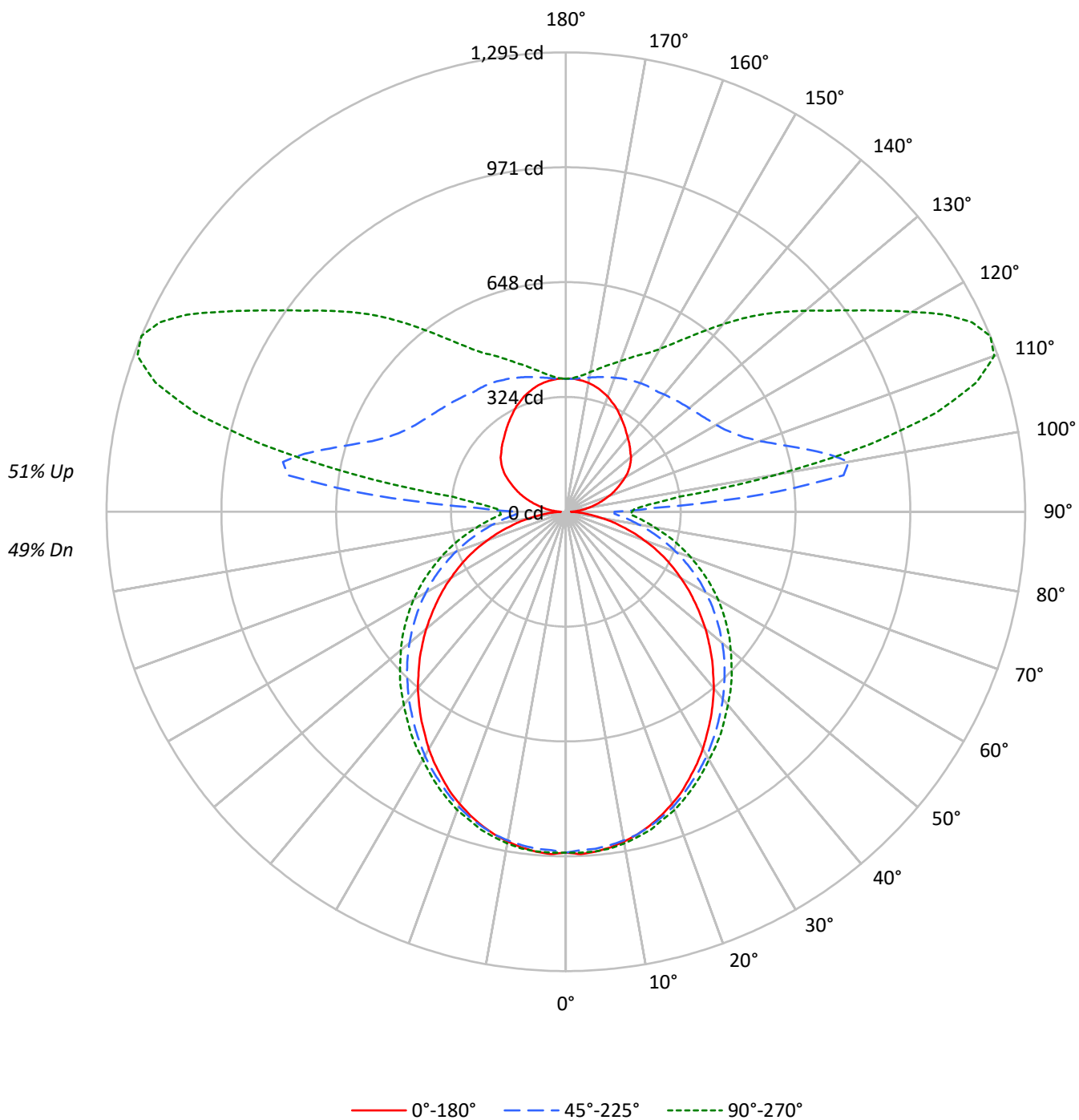
Lumens per Lamp: N/A
Luminaire Lumens: 6058.6 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	107	107	107	107	98	98	98	98		83	83	83		68	68	68		55	55	55
1	96	92	87	84	89	84	81	77		71	68	66		59	57	55		47	46	44
2	87	80	73	67	80	73	68	63		62	57	54		51	48	45		41	39	37
3	80	70	62	56	73	64	57	52		54	49	45		45	41	38		36	33	31
4	73	61	53	47	66	57	49	44		48	42	38		40	35	32		32	29	26
5	67	54	46	40	61	50	43	37		43	37	32		35	31	27		29	25	23
6	61	49	40	34	56	45	38	32		38	32	28		32	27	24		26	22	20
7	57	44	36	30	52	41	33	28		35	29	25		29	24	21		24	20	18
8	52	40	32	26	48	37	30	25		32	26	22		26	22	19		22	18	16
9	49	36	29	24	45	34	27	22		29	23	19		24	20	17		20	17	14
10	46	33	26	21	42	31	24	20		27	21	17		22	18	15		18	15	13

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	1.5
10°-20°	259.8	4.3
20°-30°	388.5	6.4
30°-40°	463.9	7.7
40°-50°	485.4	8.0
50°-60°	455.5	7.5
60°-70°	380.5	6.3
70°-80°	272.0	4.5
80°-90°	164.0	2.7
90°-100°	314.8	5.2
100°-110°	670.4	11.1
110°-120°	630.8	10.4
120°-130°	491.0	8.1
130°-140°	377.9	6.2
140°-150°	275.0	4.5
150°-160°	190.0	3.1
160°-170°	111.6	1.8
170°-180°	36.3	0.6
0°-30°	739.5	12.2
0°-40°	1203.4	19.9
0°-60°	2144.3	35.4
0°-90°	2960.7	48.9
90°-120°	1616.0	26.7
90°-150°	2759.9	45.6
90°-180°	3098.0	51.1
0°-180°	6058.6	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	74	137	175	186	12
95°	37	136	554	267	235	36
105°	96	164	689	1175	1083	102
115°	161	212	522	1104	1263	160
125°	220	259	469	845	989	195
135°	256	304	442	682	787	197
145°	290	331	424	542	599	182
155°	329	354	411	467	487	151
165°	359	369	393	417	424	101
175°	374	375	377	383	382	36
180°	375	375	375	375	375	

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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°	15.1	74.1	137.3	175.2	186.3
92.5°	24.0	103.2	251.1	192.6	194.1
95°	37.3	136.2	553.8	267.4	234.6
97.5°	51.5	144.2	789.6	459.0	319.9
100°	65.6	148.8	810.0	812.2	607.9
102.5°	80.5	155.0	754.4	1039.1	878.3
105°	96.5	163.7	688.9	1175.1	1082.8
107.5°	112.1	174.7	630.2	1230.4	1213.7
110°	129.3	186.0	581.7	1226.1	1285.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.0	198.2	546.6	1175.9	1295.0
115°	160.8	211.8	522.4	1104.3	1263.4
117.5°	176.8	223.5	503.2	1028.2	1204.0
120°	192.5	235.3	489.6	955.8	1126.8
122.5°	206.9	247.4	479.0	897.5	1055.2
125°	219.5	258.6	469.2	845.0	989.0
127.5°	230.1	271.2	461.8	800.8	931.0
130°	240.0	283.4	454.2	759.5	881.2
132.5°	246.5	294.4	448.2	720.6	834.3
135°	255.7	303.6	442.3	681.6	787.4
137.5°	264.0	311.9	436.6	643.4	739.4
140°	271.3	319.5	431.6	607.1	690.1
142.5°	280.4	325.3	425.9	572.4	642.8
145°	290.2	331.4	424.4	541.7	599.4
147.5°	299.1	337.8	422.1	516.6	562.2
150°	309.0	343.2	419.0	496.1	529.7
152.5°	318.8	348.8	415.3	480.9	504.8
155°	328.7	354.5	410.7	466.8	486.6
157.5°	336.3	359.5	406.9	453.2	469.2
160°	345.4	363.6	402.3	440.6	452.5
162.5°	352.2	366.6	397.8	428.9	437.3
165°	359.1	369.4	393.2	417.2	424.4
167.5°	364.4	371.6	388.7	406.9	411.5
170°	368.9	372.8	384.1	397.8	400.1
172.5°	372.0	373.9	380.3	389.8	389.4
175°	374.3	374.6	377.3	382.6	381.9
177.5°	375.8	375.0	375.0	378.1	376.5
180°	375.0	375.0	375.0	375.0	375.0

(END OF REPORT)