

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: P1012057

Luminaire Tested: S123DIP-B775D585UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012057
REPORT IS A COMBINATION OF REPORTS P990444 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D585UB40-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

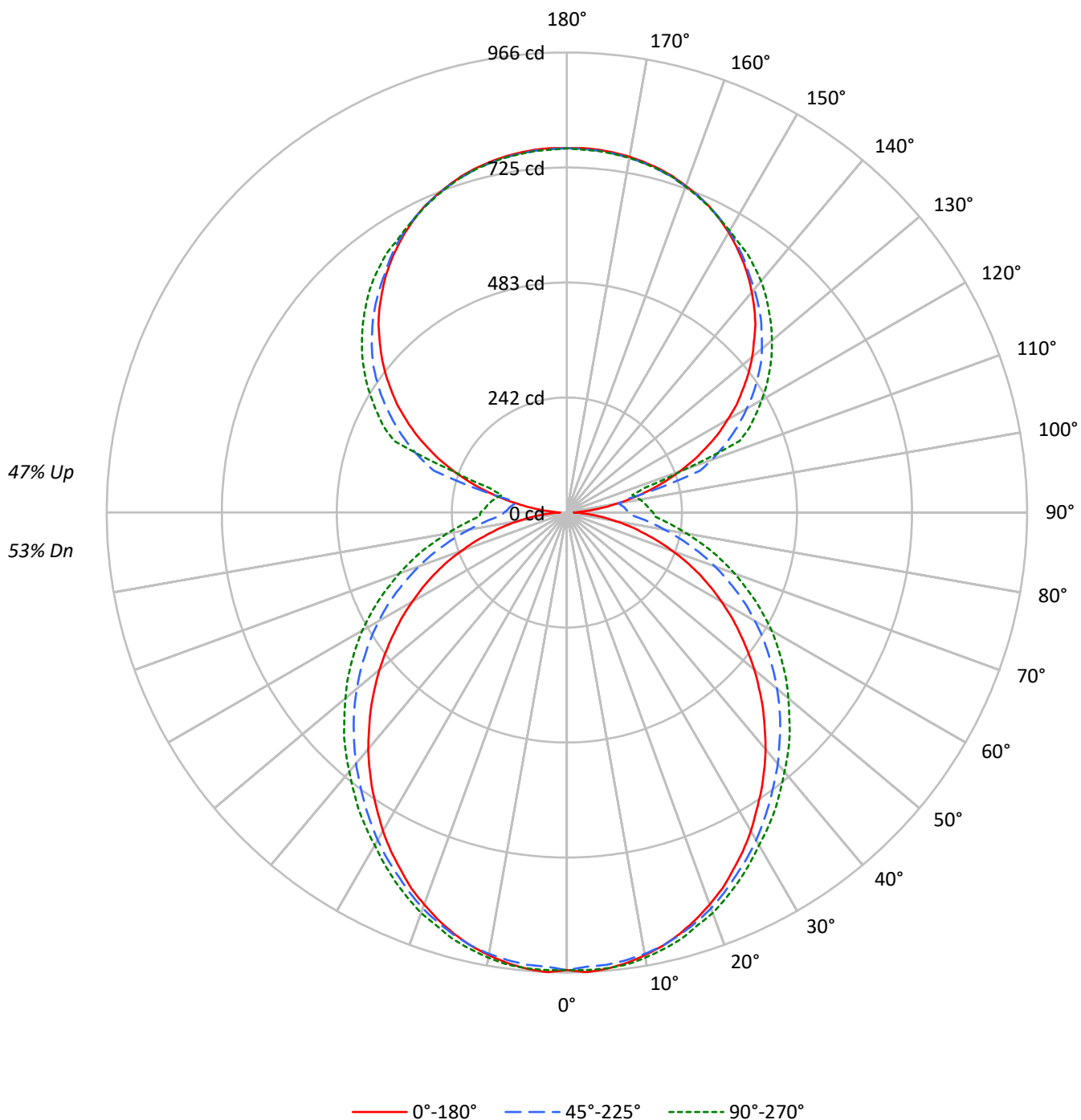
Lumens per Lamp: N/A
Luminaire Lumens: 5562.0 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
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
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85		72	72	72		59
1	97	93	88	84	90	86	82	79	73	70	68		61	59	57		50
2	88	80	74	68	81	74	69	64	63	59	55		53	50	47		44
3	80	70	62	56	74	65	58	53	55	50	46		47	43	39		38
4	73	62	54	47	67	57	50	44	49	43	39		41	37	33		34
5	67	55	46	40	62	51	44	38	44	38	33		37	32	29		31
6	62	49	41	35	57	46	38	33	39	33	29		33	29	25		28
7	57	44	36	30	53	41	34	29	36	30	25		30	26	22		25
8	53	40	32	27	49	38	30	25	32	27	22		28	23	20		23
9	49	37	29	24	46	34	27	23	30	24	20		25	21	18		21
10	46	34	26	21	43	32	25	20	27	22	18		24	19	16		20

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	1.6
10°-20°	259.8	4.7
20°-30°	388.5	7.0
30°-40°	463.9	8.3
40°-50°	485.4	8.7
50°-60°	455.5	8.2
60°-70°	380.5	6.8
70°-80°	272.0	4.9
80°-90°	163.4	2.9
90°-100°	128.7	2.3
100°-110°	205.2	3.7
110°-120°	369.4	6.6
120°-130°	434.1	7.8
130°-140°	446.1	8.0
140°-150°	407.9	7.3
150°-160°	326.9	5.9
160°-170°	210.9	3.8
170°-180°	72.7	1.3
0°-30°	739.5	13.3
0°-40°	1203.4	21.6
0°-60°	2144.3	38.6
0°-90°	2960.2	53.2
90°-120°	703.3	12.6
90°-150°	1991.4	35.8
90°-180°	2602.0	46.8
0°-180°	5562.0	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°	14	71	132	170	181	12
95°	46	64	121	158	168	50
105°	178	209	203	132	142	188
115°	323	339	382	412	423	319
125°	451	455	488	511	520	403
135°	560	562	576	596	600	431
145°	644	647	648	658	662	403
155°	708	707	708	711	707	326
165°	747	746	745	749	746	211
175°	765	762	762	766	762	73
180°	765	765	765	765	765	

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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°	14.2	71.1	131.9	169.8	181.3
92.5°	25.7	67.3	124.7	163.1	173.2
95°	46.2	63.7	121.2	157.7	168.1
97.5°	73.6	95.3	115.5	151.4	162.5
100°	105.4	150.3	109.8	144.7	155.8
102.5°	141.9	178.6	126.8	137.4	148.9
105°	177.7	209.1	202.9	131.7	142.2
107.5°	214.7	241.8	293.2	234.0	169.0
110°	251.8	275.1	323.2	331.7	258.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.1	306.7	352.7	384.1	392.3
115°	322.8	338.8	381.6	412.4	423.1
117.5°	358.0	370.4	408.9	438.5	447.5
120°	389.4	399.7	436.0	464.6	472.0
122.5°	422.4	428.5	463.1	489.0	496.9
125°	450.8	455.4	488.0	511.2	519.6
127.5°	480.4	483.9	513.0	535.6	541.7
130°	507.6	511.2	534.4	556.5	561.7
132.5°	532.8	537.3	554.7	575.8	581.5
135°	559.5	561.8	575.7	596.2	599.7
137.5°	582.2	585.7	594.2	613.7	617.9
140°	603.8	607.2	612.2	630.1	634.2
142.5°	624.9	627.3	629.0	644.3	647.8
145°	644.2	647.2	648.3	657.8	662.0
147.5°	661.9	664.8	665.9	670.1	671.5
150°	679.0	680.7	681.8	683.0	683.3
152.5°	694.3	694.9	695.5	697.7	694.9
155°	708.5	707.4	708.0	710.8	707.4
157.5°	719.9	719.9	719.3	722.7	718.2
160°	730.1	729.5	729.0	732.4	728.4
162.5°	739.8	738.1	737.5	741.5	738.1
165°	747.2	745.5	744.9	749.4	745.5
167.5°	753.4	751.1	751.1	755.7	751.1
170°	758.5	756.2	756.2	760.8	756.2
172.5°	761.9	759.1	759.7	764.2	759.1
175°	764.8	761.9	762.5	766.5	761.9
177.5°	765.9	763.1	763.6	768.2	762.5
180°	764.8	764.8	764.8	764.8	764.8

(END OF REPORT)