

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: P1012100

Luminaire Tested: S123DIP-B775D805UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012100
REPORT IS A COMBINATION OF REPORTS P990505 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-D1
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

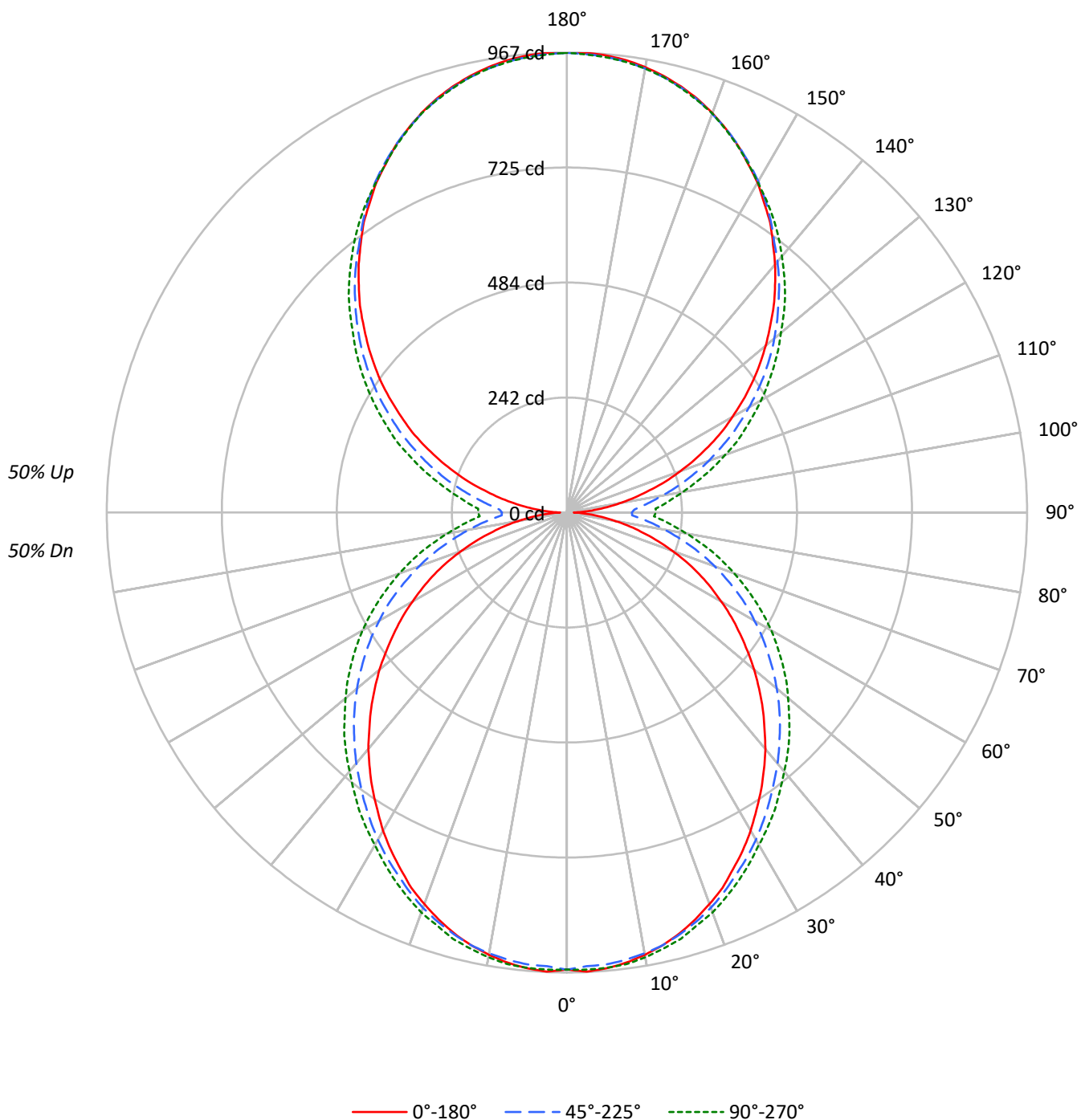
Lumens per Lamp: N/A
Luminaire Lumens: 5909.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	97	92	88	84	89	85	81	78	72	69	66	59	57	55	48	47	45
2	88	80	73	68	80	74	68	63	62	58	54	51	48	46	42	39	37
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	37	34	31
4	73	61	53	47	67	57	50	44	48	42	38	40	36	32	32	29	27
5	67	55	46	40	61	51	43	37	43	37	33	36	31	28	29	26	23
6	61	49	41	35	56	45	38	32	39	33	28	32	28	24	26	23	20
7	57	44	36	30	52	41	34	28	35	29	25	29	25	21	24	21	18
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16
9	49	36	29	24	45	34	27	22	29	24	20	25	20	17	20	17	14
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	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	4.4
20°-30°	388.5	6.6
30°-40°	463.9	7.9
40°-50°	485.4	8.2
50°-60°	455.5	7.7
60°-70°	380.5	6.4
70°-80°	272.0	4.6
80°-90°	163.9	2.8
90°-100°	163.9	2.8
100°-110°	263.1	4.5
110°-120°	370.5	6.3
120°-130°	450.2	7.6
130°-140°	486.8	8.2
140°-150°	468.7	7.9
150°-160°	392.4	6.6
160°-170°	261.2	4.4
170°-180°	91.5	1.5
0°-30°	739.5	12.5
0°-40°	1203.4	20.4
0°-60°	2144.3	36.3
0°-90°	2960.7	50.1
90°-120°	797.5	13.5
90°-150°	2203.3	37.3
90°-180°	2948.0	49.9
0°-180°	5909.0	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	73	136	175	187	13
95°	56	102	160	195	206	58
105°	179	206	258	287	298	191
115°	328	343	379	405	412	325
125°	475	478	506	526	530	424
135°	615	618	629	645	648	474
145°	744	745	747	755	756	465
155°	851	851	852	855	850	392
165°	927	925	925	929	924	261
175°	964	961	961	966	960	92
180°	966	966	966	966	966	

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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°	14.4	73.3	136.5	175.2	187.1
92.5°	35.4	84.9	141.8	178.6	186.5
95°	56.3	102.4	159.8	195.3	205.7
97.5°	84.1	125.5	179.3	214.5	224.2
100°	112.7	150.7	202.7	235.3	247.3
102.5°	145.8	177.4	229.8	261.4	271.0
105°	179.2	205.8	257.7	287.0	297.9
107.5°	217.6	240.4	286.3	316.9	325.5
110°	253.0	273.4	316.8	347.0	353.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	291.0	306.4	346.2	376.2	385.6
115°	327.9	342.7	378.9	404.8	412.4
117.5°	366.6	375.7	409.8	434.9	441.1
120°	401.3	411.0	441.8	465.1	471.0
122.5°	438.5	443.6	474.5	495.2	500.3
125°	475.3	477.6	506.5	525.5	529.7
127.5°	510.3	513.8	538.5	554.8	559.1
130°	545.2	550.3	568.9	585.7	586.7
132.5°	579.1	585.2	599.4	614.4	618.0
135°	614.8	618.2	629.1	644.8	648.5
137.5°	647.4	650.1	659.8	672.7	675.7
140°	680.5	684.3	688.3	703.2	703.1
142.5°	711.6	714.4	715.9	728.8	730.2
145°	744.3	744.8	747.1	754.7	755.9
147.5°	771.4	774.4	776.7	779.8	779.4
150°	801.0	802.5	804.0	804.0	801.6
152.5°	825.3	827.5	828.3	829.8	826.0
155°	851.1	851.1	851.8	854.9	849.6
157.5°	873.1	872.3	873.1	876.1	871.6
160°	893.6	892.1	892.1	895.9	892.8
162.5°	911.8	909.5	910.3	914.1	908.8
165°	927.0	924.7	924.7	929.3	924.0
167.5°	939.9	936.9	937.6	942.2	937.6
170°	950.5	947.5	947.5	952.8	947.5
172.5°	958.9	955.9	955.9	960.4	955.1
175°	964.2	961.2	961.2	965.7	960.4
177.5°	967.2	964.2	964.2	968.8	963.4
180°	966.5	966.5	966.5	966.5	966.5

(END OF REPORT)