

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: P1012076

Luminaire Tested: S123DIP-B775D805UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012076
REPORT IS A COMBINATION OF REPORTS P990463 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D805UB27-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

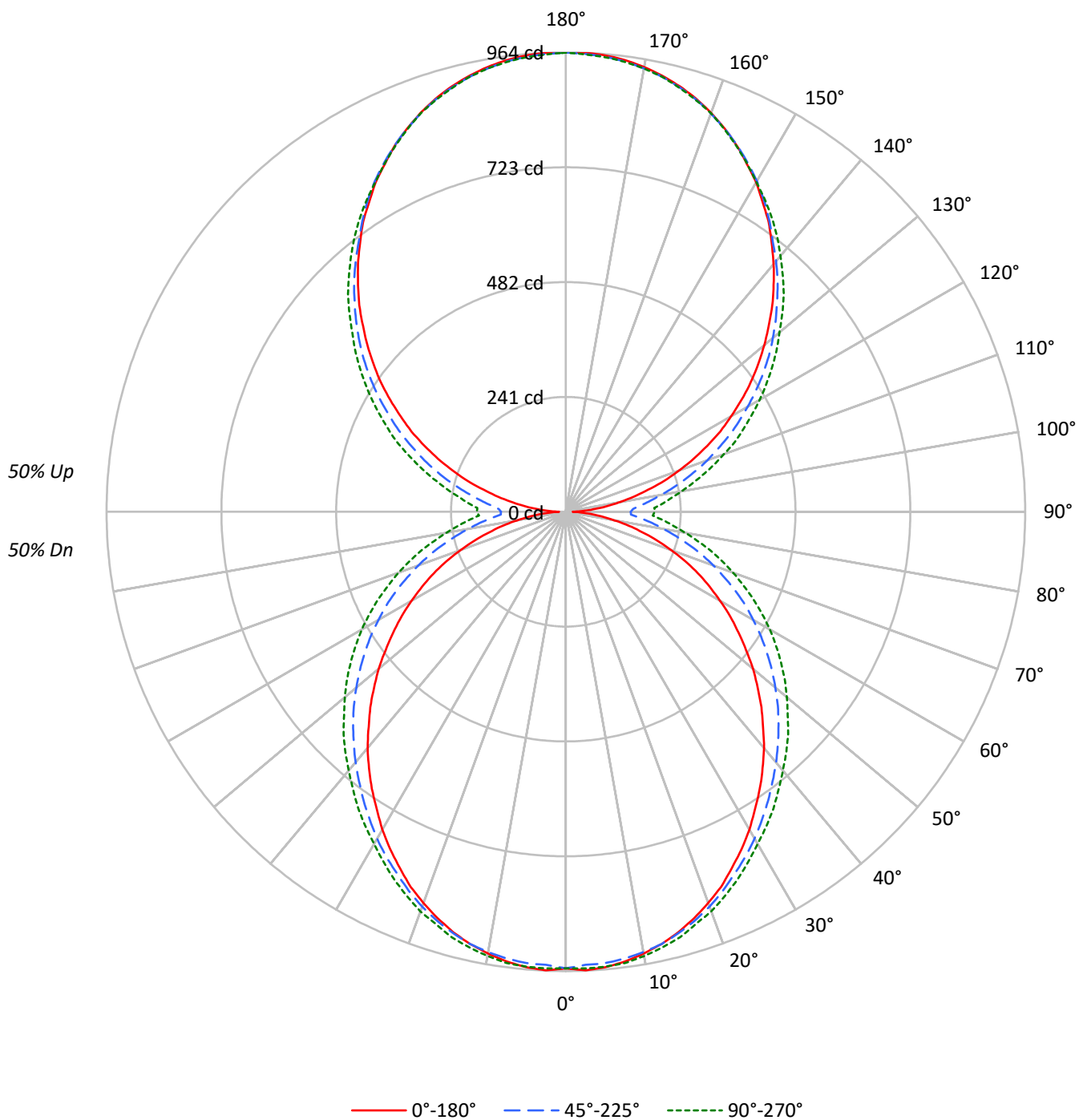
Lumens per Lamp: N/A
Luminaire Lumens: 5891.9 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	56	56	56
1	97	92	88	84	89	85	81	78	72	69	66	59	57	55	48	47	45	45	45	40
2	88	80	73	68	80	74	68	63	62	58	54	51	48	46	42	39	37	37	37	33
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	37	34	31	31	31	27
4	73	61	53	47	67	57	50	44	48	42	38	40	36	32	32	29	27	27	27	23
5	67	55	46	40	61	51	43	37	43	37	33	36	31	28	29	26	23	23	23	20
6	61	49	41	35	56	45	38	32	39	33	28	32	28	24	26	23	20	20	20	17
7	57	44	36	30	52	41	34	28	35	29	25	29	25	21	24	21	18	18	18	15
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16	16	16	14
9	49	36	29	24	45	34	27	22	29	24	20	25	20	17	20	17	14	14	14	12
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	15	13	13	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10313	10313	10313
5°	10342	10010	10002
10°	10244	9739	9665
15°	10109	9440	9307
20°	9917	9106	8923
25°	9679	8730	8525
30°	9437	8391	8125
35°	9165	8033	7800
40°	8906	7706	7456
45°	8618	7390	7172
50°	8334	7077	6864
55°	8018	6756	6582
60°	7709	6428	6291
65°	7392	6078	5953
70°	6915	5685	5602
75°	6311	5238	5242
80°	5608	4784	4830
85°	4908	4417	4535

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8618 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.5
10°-20°	259.1	4.4
20°-30°	387.5	6.6
30°-40°	462.6	7.9
40°-50°	484.0	8.2
50°-60°	454.2	7.7
60°-70°	379.4	6.4
70°-80°	271.3	4.6
80°-90°	163.4	2.8
90°-100°	163.5	2.8
100°-110°	262.3	4.5
110°-120°	369.4	6.3
120°-130°	448.9	7.6
130°-140°	485.4	8.2
140°-150°	467.3	7.9
150°-160°	391.2	6.6
160°-170°	260.4	4.4
170°-180°	91.2	1.5
0°-30°	737.5	12.5
0°-40°	1200.1	20.4
0°-60°	2138.3	36.3
0°-90°	2952.4	50.1
90°-120°	795.2	13.5
90°-150°	2196.7	37.3
90°-180°	2940.0	49.9
0°-180°	5891.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	959	957	951	959	958	91
15°	913	916	915	926	925	257
25°	824	835	838	852	852	380
35°	710	726	740	756	760	444
45°	580	605	631	651	660	447
55°	442	477	514	543	551	396
65°	306	346	392	424	434	302
75°	166	215	267	302	314	177
85°	51	103	159	194	205	53
90°	14	73	136	175	187	13
95°	56	102	159	195	205	58
105°	179	205	257	286	297	191
115°	327	342	378	404	411	324
125°	474	476	505	524	528	423
135°	613	616	627	643	647	472
145°	742	743	745	752	754	463
155°	848	848	849	852	847	391
165°	924	922	922	926	921	261
175°	961	958	958	963	958	91
180°	964	964	964	964	964	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.1	958.1	958.1	958.1	958.1
2.5°	963.3	960.2	951.8	960.2	959.2
5°	959.2	957.1	950.8	959.2	958.1
7.5°	951.8	951.8	945.6	956.0	955.0
10°	941.4	943.5	938.3	948.7	946.6
12.5°	928.9	932.0	928.9	938.3	936.2
15°	913.2	916.4	915.3	925.8	924.7
17.5°	894.4	900.7	899.7	909.1	907.0
20°	873.6	879.8	881.9	891.3	892.4
22.5°	851.7	857.9	861.0	873.6	872.5
25°	824.5	835.0	838.1	851.7	851.7
27.5°	798.4	809.9	816.2	827.6	828.7
30°	770.2	783.8	792.2	804.7	804.7
32.5°	738.9	754.6	766.1	779.6	782.8
35°	709.7	726.4	740.0	755.6	759.8
37.5°	678.4	697.2	712.8	730.6	733.7
40°	647.1	665.9	686.7	704.5	708.7
42.5°	612.6	636.7	658.6	678.4	684.7
45°	580.3	605.3	631.4	651.3	659.6
47.5°	545.9	574.0	603.3	625.2	631.4
50°	512.5	541.7	574.0	598.0	605.3
52.5°	477.0	508.3	544.8	569.9	579.2
55°	442.5	477.0	514.5	542.7	551.1
57.5°	409.1	444.6	485.3	513.5	522.9
60°	373.6	411.2	454.0	483.2	494.7
62.5°	340.2	378.9	424.8	454.0	464.4
65°	305.8	346.5	392.4	423.7	434.2
67.5°	271.4	314.2	360.1	394.5	402.9
70°	234.8	279.7	329.8	363.2	373.6
72.5°	201.4	246.3	298.5	332.9	343.4
75°	165.9	215.0	267.2	301.6	314.2
77.5°	135.7	184.7	236.9	273.4	282.8
80°	103.3	154.5	208.7	244.2	254.7
82.5°	75.1	127.3	182.6	218.1	228.6
85°	51.1	103.3	158.6	194.1	204.6
87.5°	31.3	83.5	136.7	172.2	182.6
90°	14.4	73.0	136.1	174.6	186.6
92.5°	35.2	84.7	141.4	178.1	185.9
95°	56.2	102.2	159.3	194.7	205.1
97.5°	83.8	125.2	178.9	213.9	223.6
100°	112.3	150.3	202.1	234.6	246.6
102.5°	145.3	176.9	229.1	260.6	270.3
105°	178.6	205.2	256.9	286.1	297.1
107.5°	217.0	239.6	285.5	315.9	324.6
110°	252.3	272.5	315.8	346.0	352.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	290.2	305.5	345.1	375.0	384.4
115°	326.9	341.7	377.8	403.6	411.2
117.5°	365.5	374.7	408.7	433.7	439.8
120°	400.1	409.8	440.4	463.7	469.5
122.5°	437.2	442.3	473.1	493.8	498.8
125°	473.9	476.2	505.0	523.9	528.1
127.5°	508.7	512.3	536.9	553.2	557.5
130°	543.6	548.6	567.2	584.0	585.0
132.5°	577.4	583.4	597.5	612.5	616.1
135°	613.0	616.4	627.1	642.9	646.6
137.5°	645.5	648.2	657.8	670.7	673.7
140°	678.5	682.3	686.2	701.1	701.0
142.5°	709.5	712.3	713.8	726.6	728.1
145°	742.1	742.6	744.8	752.4	753.6
147.5°	769.1	772.1	774.4	777.5	777.1
150°	798.6	800.1	801.6	801.6	799.2
152.5°	822.8	825.1	825.8	827.3	823.6
155°	848.5	848.5	849.3	852.3	847.0
157.5°	870.5	869.7	870.5	873.5	869.0
160°	890.9	889.4	889.4	893.2	890.2
162.5°	909.1	906.8	907.6	911.4	906.1
165°	924.2	922.0	922.0	926.5	921.2
167.5°	937.1	934.1	934.8	939.4	934.8
170°	947.7	944.7	944.7	950.0	944.7
172.5°	956.0	953.0	953.0	957.5	952.2
175°	961.3	958.3	958.3	962.8	957.5
177.5°	964.4	961.3	961.3	965.9	960.6
180°	963.6	963.6	963.6	963.6	963.6

(END OF REPORT)