

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: P1012075

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012075
REPORT IS A COMBINATION OF REPORTS P990462 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-D
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

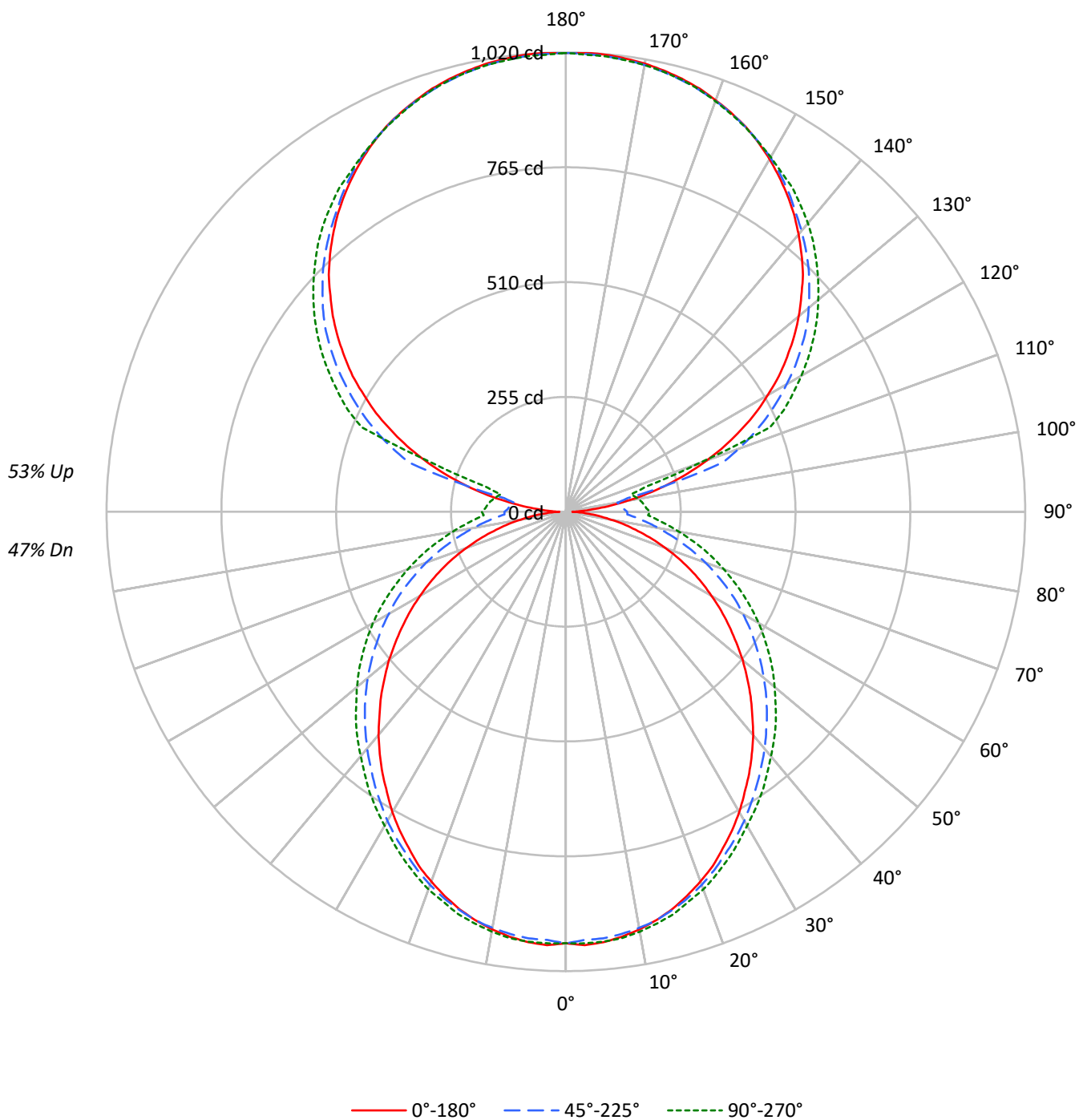
Lumens per Lamp: N/A
Luminaire Lumens: 6327.9 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	47	47	47
1	96	91	87	83	88	84	80	77	70	67	65	57	55	53	45	44	43	37	37	37
2	87	79	73	67	80	73	67	62	61	57	53	50	47	44	39	37	35	30	30	30
3	79	69	62	55	72	64	57	52	53	48	44	44	40	37	35	32	30	25	25	25
4	72	61	53	47	66	56	49	43	47	42	37	39	34	31	31	28	25	21	21	21
5	66	54	46	40	60	50	43	37	42	36	32	35	30	27	28	24	22	18	18	18
6	61	49	40	34	56	45	37	32	38	32	28	31	27	23	25	22	19	16	16	16
7	56	44	36	30	51	40	33	28	34	28	24	28	24	21	23	19	17	14	14	14
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	21	18	15	13	13	13
9	49	36	29	23	44	33	27	22	28	23	19	24	19	16	19	16	14	11	11	11
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12	10	10	10

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	1.4
10°-20°	259.1	4.1
20°-30°	387.5	6.1
30°-40°	462.6	7.3
40°-50°	484.0	7.6
50°-60°	454.2	7.2
60°-70°	379.4	6.0
70°-80°	271.3	4.3
80°-90°	163.4	2.6
90°-100°	137.4	2.2
100°-110°	248.3	3.9
110°-120°	475.4	7.5
120°-130°	568.8	9.0
130°-140°	590.0	9.3
140°-150°	542.5	8.6
150°-160°	435.4	6.9
160°-170°	281.0	4.4
170°-180°	96.8	1.5
0°-30°	737.5	11.7
0°-40°	1200.1	19.0
0°-60°	2138.3	33.8
0°-90°	2952.4	46.7
90°-120°	861.1	13.6
90°-150°	2562.3	40.5
90°-180°	3376.0	53.4
0°-180°	6327.9	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	12
95°	58	67	127	164	175	64
105°	234	267	244	139	150	248
115°	428	445	490	522	534	423
125°	600	606	639	662	671	536
135°	745	748	763	784	787	573
145°	858	862	864	874	878	537
155°	944	942	943	947	942	435
165°	995	993	992	998	993	281
175°	1019	1015	1016	1021	1015	97
180°	1019	1019	1019	1019	1019	

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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°	29.9	70.3	129.3	169.0	179.1
95°	57.7	67.3	126.8	164.5	174.9
97.5°	94.4	110.8	121.3	158.7	169.8
100°	137.3	185.9	115.8	152.1	163.3
102.5°	186.2	225.3	140.5	144.8	156.7
105°	233.9	267.3	244.1	139.3	150.2
107.5°	283.6	312.3	366.4	278.1	188.3
110°	333.3	358.0	408.2	410.3	310.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	381.7	401.6	449.6	482.5	490.4
115°	428.3	445.4	489.8	522.4	533.8
117.5°	475.3	488.9	528.2	559.3	568.4
120°	517.4	529.4	566.1	596.1	603.4
122.5°	561.3	568.7	604.0	630.8	638.9
125°	599.6	605.6	638.9	662.4	671.2
127.5°	638.9	644.0	673.9	697.0	702.8
130°	675.3	680.3	704.2	727.1	731.8
132.5°	709.1	715.1	733.0	754.8	759.9
135°	744.6	748.1	762.6	783.7	786.6
137.5°	774.9	779.9	788.7	809.2	813.0
140°	804.1	808.6	814.1	832.7	836.4
142.5°	832.1	835.6	837.9	853.8	856.7
145°	857.8	862.1	863.7	873.5	877.7
147.5°	881.8	885.6	887.1	891.7	892.1
150°	904.5	906.8	908.3	909.8	909.7
152.5°	925.0	925.7	926.5	929.5	925.7
155°	943.9	942.4	943.1	946.9	942.4
157.5°	959.0	959.0	958.3	962.8	956.8
160°	972.6	971.9	971.1	975.7	970.4
162.5°	985.5	983.2	982.5	987.8	983.2
165°	995.4	993.1	992.3	998.4	993.1
167.5°	1003.7	1000.7	1000.7	1006.7	1000.7
170°	1010.5	1007.5	1007.5	1013.5	1007.5
172.5°	1015.0	1011.3	1012.0	1018.1	1011.3
175°	1018.8	1015.0	1015.8	1021.1	1015.0
177.5°	1020.3	1016.6	1017.3	1023.4	1015.8
180°	1018.8	1018.8	1018.8	1018.8	1018.8

(END OF REPORT)