

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: P1012032

Luminaire Tested: S123DIP-B775D585UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012032
REPORT IS A COMBINATION OF REPORTS P990403 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D585UB27-4F0-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

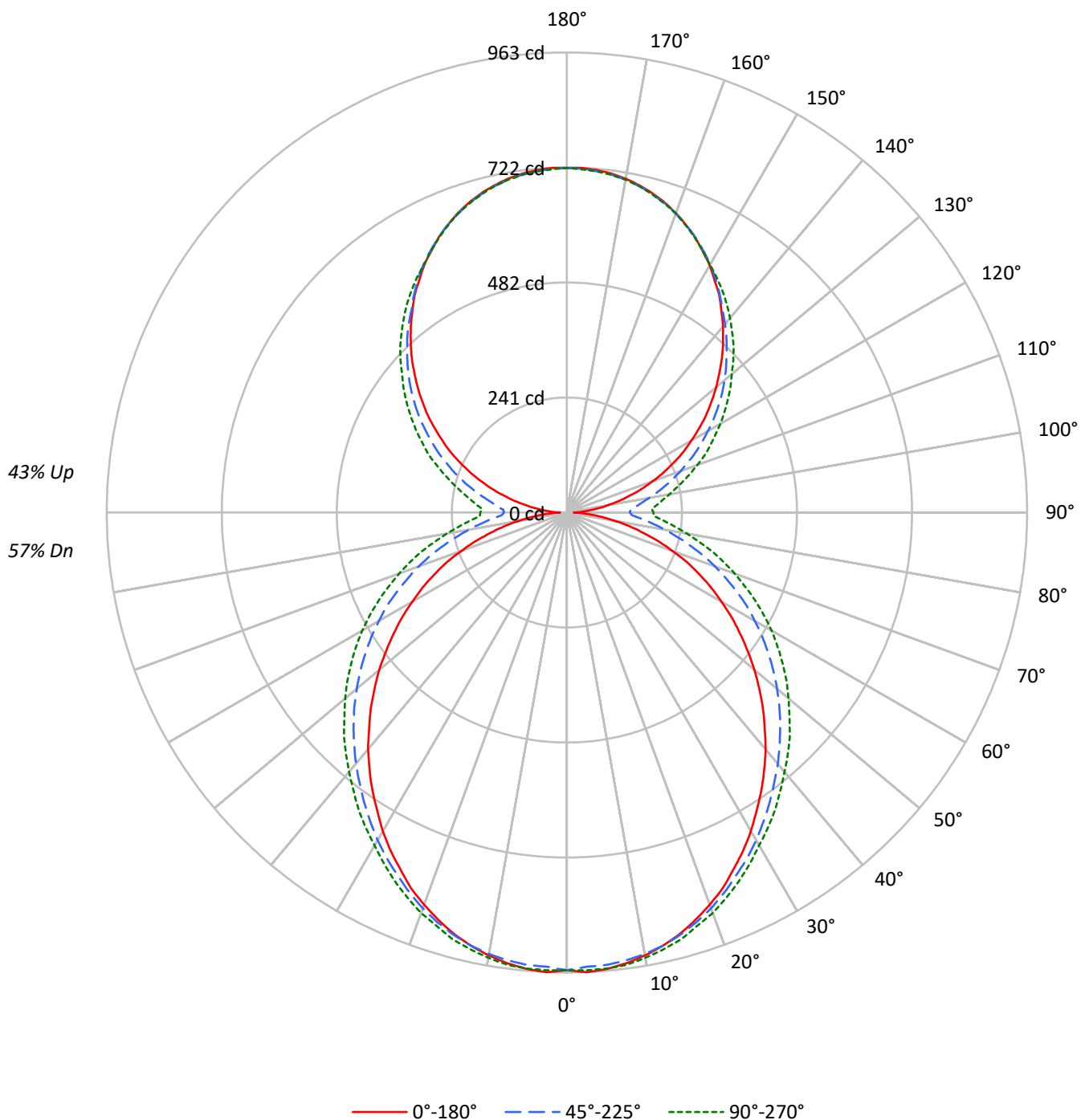
Lumens per Lamp: N/A
Luminaire Lumens: 5219.9 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	30	10
RCR																	
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62
1	98	93	89	85	91	87	83	79	75	72	69	63	61	59	53	52	50
2	89	81	74	68	82	75	69	64	65	60	56	55	52	49	46	44	41
3	81	71	63	56	75	66	59	53	57	51	47	48	44	41	40	37	35
4	74	62	54	47	68	58	51	45	50	44	40	43	38	34	36	32	30
5	68	55	47	40	62	52	44	38	45	39	34	38	33	30	32	29	26
6	62	50	41	35	58	46	39	33	40	34	29	35	30	26	29	25	22
7	58	45	36	31	53	42	34	29	36	30	26	31	26	23	27	23	20
8	53	41	33	27	49	38	31	26	33	27	23	29	24	20	24	21	18
9	50	37	29	24	46	35	28	23	30	25	21	26	22	18	22	19	16
10	46	34	26	22	43	32	25	21	28	22	18	24	20	16	21	17	14

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	1.7
10°-20°	259.1	5.0
20°-30°	387.5	7.4
30°-40°	462.6	8.9
40°-50°	484.0	9.3
50°-60°	454.2	8.7
60°-70°	379.4	7.3
70°-80°	271.3	5.2
80°-90°	162.9	3.1
90°-100°	147.9	2.8
100°-110°	215.1	4.1
110°-120°	289.0	5.5
120°-130°	343.1	6.6
130°-140°	366.5	7.0
140°-150°	350.4	6.7
150°-160°	292.8	5.6
160°-170°	194.9	3.7
170°-180°	68.3	1.3
0°-30°	737.5	14.1
0°-40°	1200.1	23.0
0°-60°	2138.3	41.0
0°-90°	2951.9	56.6
90°-120°	652.0	12.5
90°-150°	1712.1	32.8
90°-180°	2268.0	43.4
0°-180°	5219.9	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	71	132	169	181	12
95°	45	90	145	180	190	46
105°	136	162	212	241	252	145
115°	246	260	297	322	330	244
125°	356	357	386	406	411	317
135°	459	462	473	489	493	354
145°	556	556	558	565	567	347
155°	635	635	636	638	634	292
165°	692	690	690	694	690	195
175°	720	717	717	721	717	68
180°	721	721	721	721	721	

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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°	14.2	70.9	131.5	169.3	180.9
92.5°	29.5	77.8	133.4	169.5	177.8
95°	44.9	89.6	145.2	179.9	190.3
97.5°	65.4	105.8	158.3	192.4	202.3
100°	86.5	123.3	174.1	206.1	217.6
102.5°	110.9	141.9	192.7	223.7	233.6
105°	135.8	162.0	212.0	241.2	251.7
107.5°	164.2	186.7	231.8	261.7	270.5
110°	190.4	210.3	253.2	282.6	289.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	218.8	233.9	273.5	302.5	311.9
115°	246.0	260.2	296.7	322.3	330.1
117.5°	274.9	283.9	318.2	343.2	349.9
120°	300.5	309.1	340.7	364.1	370.3
122.5°	328.3	332.7	363.8	385.1	390.7
125°	355.5	357.2	386.4	406.0	411.0
127.5°	381.6	384.0	408.9	426.4	431.5
130°	407.6	411.2	430.4	447.9	450.2
132.5°	432.7	437.2	451.7	467.7	472.1
135°	459.3	461.6	472.6	489.1	493.2
137.5°	483.7	485.4	494.4	508.3	511.9
140°	508.1	510.9	514.7	529.7	531.0
142.5°	531.3	533.2	534.3	547.3	549.7
145°	555.7	555.8	557.5	565.2	567.2
147.5°	575.6	577.9	579.6	582.7	583.5
150°	597.7	598.9	600.0	600.0	598.7
152.5°	615.9	617.6	618.1	619.3	616.4
155°	635.1	635.1	635.7	638.0	634.0
157.5°	651.6	651.0	651.6	653.8	650.4
160°	666.9	665.7	665.7	668.6	666.3
162.5°	680.5	678.8	679.3	682.2	678.2
165°	691.8	690.1	690.1	693.5	689.5
167.5°	701.4	699.2	699.7	703.1	699.7
170°	709.4	707.1	707.1	711.1	707.1
172.5°	715.6	713.3	713.3	716.7	712.8
175°	719.6	717.3	717.3	720.7	716.7
177.5°	721.8	719.6	719.6	723.0	719.0
180°	721.3	721.3	721.3	721.3	721.3

(END OF REPORT)