

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: P1012033

Luminaire Tested: S123DIP-B775D585UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012033
REPORT IS A COMBINATION OF REPORTS P990404 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D585UB27-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

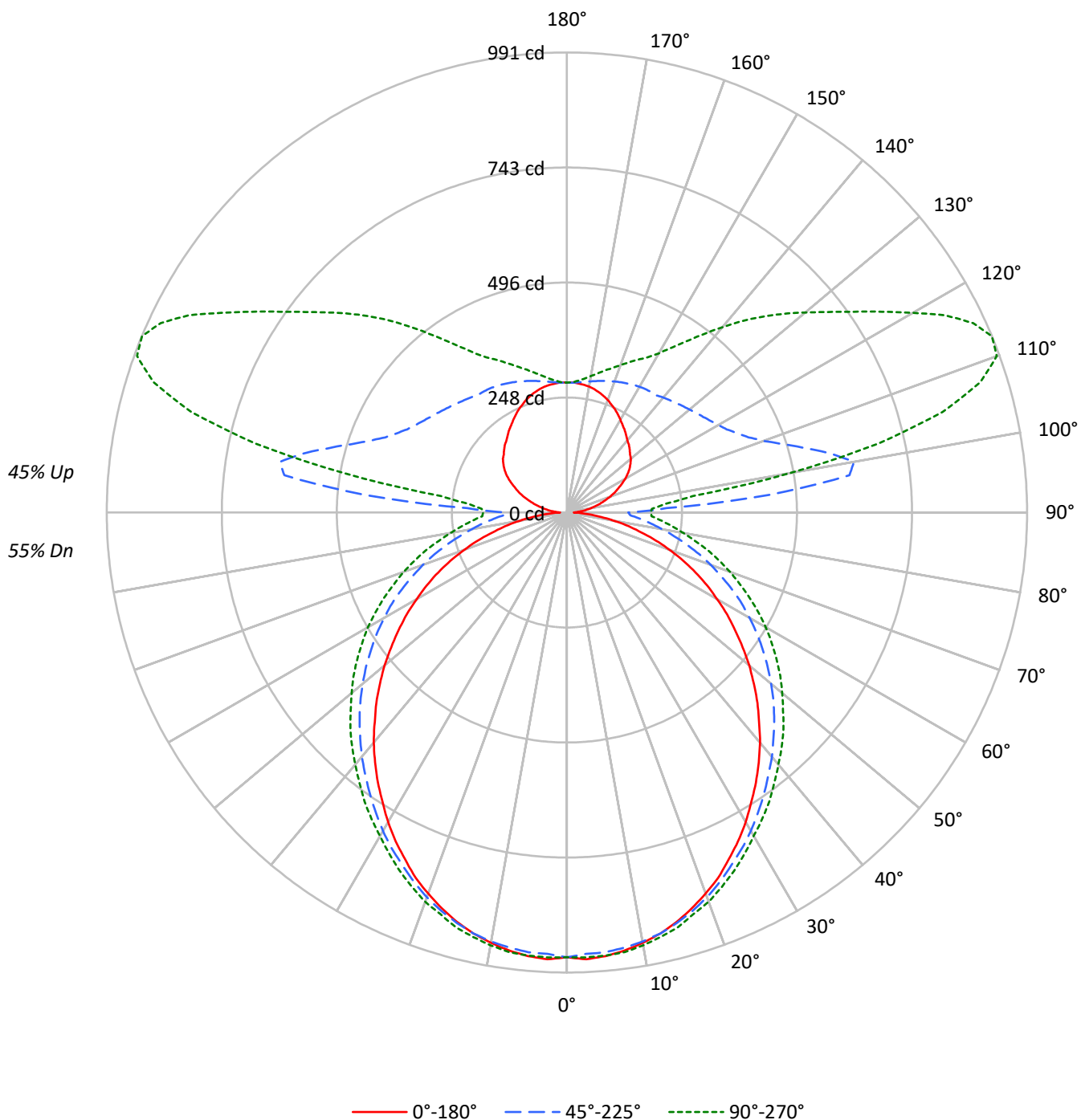
Lumens per Lamp: N/A
Luminaire Lumens: 5331.8 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
Input Voltage (V):
Input Current (A_{in}): 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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61
1	98	93	89	85	91	86	83	79	74	71	68	63	61	59	52	51	49
2	89	81	74	68	82	75	69	64	64	60	56	54	51	48	45	43	41
3	81	70	63	56	74	65	59	53	56	51	46	48	44	40	40	37	34
4	74	62	54	47	68	58	50	45	50	44	39	42	38	34	35	32	29
5	67	55	47	40	62	51	44	38	44	38	34	38	33	29	32	28	25
6	62	49	41	35	57	46	39	33	40	34	29	34	29	26	29	25	22
7	57	45	36	31	53	42	34	29	36	30	26	31	26	23	26	22	19
8	53	40	32	27	49	38	31	26	33	27	23	28	24	20	24	20	17
9	50	37	29	24	46	35	28	23	30	24	20	26	21	18	22	18	16
10	46	34	26	21	43	32	25	20	28	22	18	24	19	16	20	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	4.9
20°-30°	387.5	7.3
30°-40°	462.6	8.7
40°-50°	484.0	9.1
50°-60°	454.2	8.5
60°-70°	379.4	7.1
70°-80°	271.3	5.1
80°-90°	163.0	3.1
90°-100°	260.5	4.9
100°-110°	519.1	9.7
110°-120°	483.3	9.1
120°-130°	373.6	7.0
130°-140°	285.2	5.3
140°-150°	206.0	3.9
150°-160°	141.8	2.7
160°-170°	83.3	1.6
170°-180°	27.1	0.5
0°-30°	737.5	13.8
0°-40°	1200.1	22.5
0°-60°	2138.3	40.1
0°-90°	2951.9	55.4
90°-120°	1262.9	23.7
90°-150°	2127.7	39.9
90°-180°	2380.0	44.6
0°-180°	5331.8	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°	15	72	132	169	180	11
95°	31	115	439	234	212	29
105°	74	131	534	904	838	78
115°	121	162	404	844	965	120
125°	165	194	359	645	754	147
135°	191	227	333	517	597	148
145°	217	247	317	406	450	136
155°	245	265	306	348	363	113
165°	268	276	294	311	317	76
175°	279	280	282	286	285	27
180°	280	280	280	280	280	

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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°	14.7	71.5	132.1	169.2	180.3
92.5°	21.0	91.4	215.0	180.0	183.4
95°	30.8	114.8	439.3	233.7	211.8
97.5°	41.0	119.7	613.8	374.9	273.7
100°	51.3	121.8	627.4	636.7	486.8
102.5°	62.1	125.2	584.2	804.2	686.8
105°	74.0	130.6	533.8	904.2	837.6
107.5°	85.5	137.7	488.5	943.6	933.4
110°	98.1	145.2	451.0	938.7	985.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	110.6	153.2	423.1	899.4	990.7
115°	121.4	162.4	403.8	844.4	965.2
117.5°	133.3	170.2	387.9	786.0	919.4
120°	144.7	178.0	376.4	730.4	859.8
122.5°	155.5	186.2	367.2	685.4	804.9
125°	164.6	193.8	358.6	644.6	753.9
127.5°	172.5	203.0	351.7	610.1	709.1
130°	179.9	212.0	344.8	577.6	670.1
132.5°	184.5	220.2	339.0	547.0	633.6
135°	191.3	226.8	333.2	516.6	596.9
137.5°	197.6	233.0	327.9	486.4	559.5
140°	202.7	238.7	323.2	458.0	521.3
142.5°	209.5	242.8	317.9	430.6	484.5
145°	216.9	247.3	316.7	406.4	450.5
147.5°	223.2	252.2	315.0	386.5	421.5
150°	230.6	256.1	312.8	370.3	395.9
152.5°	238.0	260.4	309.9	359.0	376.8
155°	245.3	264.6	306.5	348.5	363.2
157.5°	251.0	268.3	303.7	338.2	350.2
160°	257.8	271.4	300.3	328.9	337.7
162.5°	262.9	273.6	296.9	320.1	326.4
165°	268.0	275.6	293.5	311.4	316.7
167.5°	272.0	277.4	290.1	303.7	307.1
170°	275.4	278.2	286.7	296.9	298.6
172.5°	277.6	279.0	283.9	291.0	290.7
175°	279.3	279.6	281.6	285.6	285.0
177.5°	280.5	279.9	279.9	282.2	281.0
180°	279.9	279.9	279.9	279.9	279.9

(END OF REPORT)