

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: P1011989

Luminaire Tested: S123DIP-B775D365UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011989
REPORT IS A COMBINATION OF REPORTS P990343 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D365UB27-4F0-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

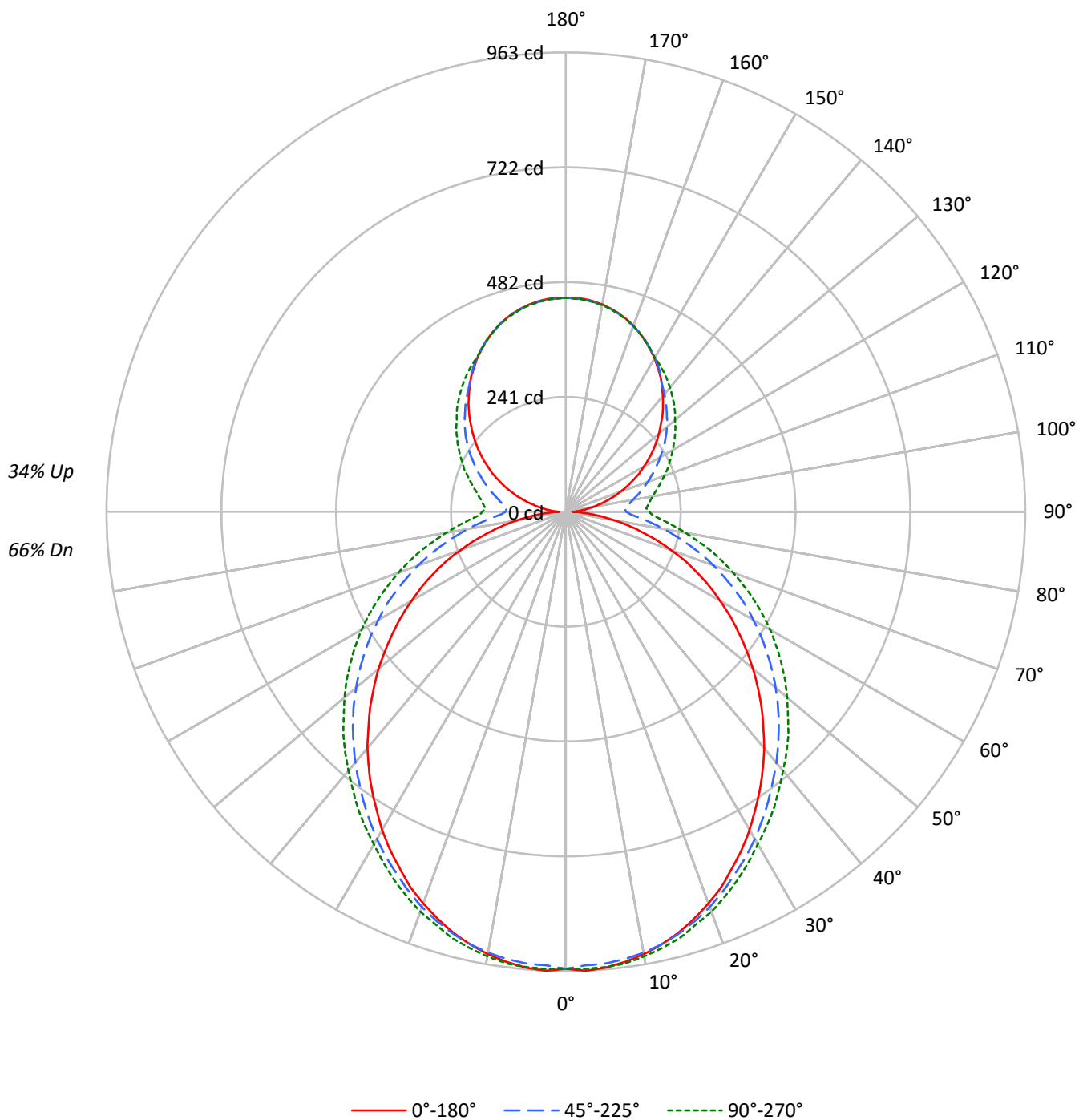
Lumens per Lamp: N/A
Luminaire Lumens: 4464.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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	111	111	111	111		104	104	104	104		92	92	92		81	81	81		71	71	71
1	100	95	90	86		94	89	85	82		79	76	73		69	67	65		61	59	57
2	91	82	75	69		85	77	71	66		68	64	59		60	56	53		52	50	47
3	82	72	64	57		77	68	60	55		60	54	49		53	48	44		46	43	39
4	75	63	55	48		70	60	52	46		53	47	42		47	42	38		41	37	34
5	69	56	48	41		64	53	45	39		47	41	36		42	37	32		37	33	29
6	63	51	42	36		59	48	40	34		43	36	31		38	32	28		33	29	26
7	59	46	37	31		55	43	35	30		39	32	27		34	29	25		30	26	23
8	55	41	33	28		51	39	32	27		35	29	24		31	26	22		28	23	20
9	51	38	30	25		48	36	29	24		32	26	22		29	24	20		26	21	18
10	48	35	27	22		45	33	26	21		30	24	20		27	22	18		24	20	17

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	2.0
10°-20°	259.1	5.8
20°-30°	387.5	8.7
30°-40°	462.6	10.4
40°-50°	484.0	10.8
50°-60°	454.2	10.2
60°-70°	379.4	8.5
70°-80°	271.3	6.1
80°-90°	162.4	3.6
90°-100°	130.3	2.9
100°-110°	162.0	3.6
110°-120°	198.6	4.4
120°-130°	224.2	5.0
130°-140°	232.8	5.2
140°-150°	219.0	4.9
150°-160°	182.1	4.1
160°-170°	121.2	2.7
170°-180°	42.5	1.0
0°-30°	737.5	16.5
0°-40°	1200.1	26.9
0°-60°	2138.3	47.9
0°-90°	2951.3	66.1
90°-120°	490.9	11.0
90°-150°	1166.8	26.1
90°-180°	1513.0	33.9
0°-180°	4464.0	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	69	126	163	174	11
95°	32	76	129	163	174	32
105°	88	113	162	191	201	93
115°	155	168	205	231	239	154
125°	222	223	253	273	279	199
135°	286	288	299	316	320	221
145°	346	346	347	355	358	216
155°	395	395	395	397	394	182
165°	430	429	429	431	429	121
175°	448	446	446	448	446	43
180°	449	449	449	449	449	

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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°	14.0	68.6	126.4	163.3	174.5
92.5°	23.1	70.1	124.4	159.9	168.6
95°	32.3	75.5	129.4	163.2	173.6
97.5°	44.6	83.9	135.2	168.2	178.3
100°	57.3	92.8	142.6	174.0	185.1
102.5°	72.1	102.4	151.8	182.2	192.2
105°	87.6	113.4	161.5	190.7	200.8
107.5°	104.9	127.2	171.4	200.6	209.7
110°	120.8	140.2	182.7	211.3	218.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.5	153.4	193.0	220.9	230.3
115°	155.0	168.5	205.4	230.9	238.8
117.5°	172.9	181.7	216.5	241.5	248.8
120°	188.5	195.8	228.5	252.1	258.7
122.5°	205.8	209.3	240.9	262.8	269.1
125°	222.3	223.4	253.0	273.4	279.3
127.5°	238.5	239.6	265.0	283.8	289.7
130°	254.7	256.5	276.4	294.8	298.6
132.5°	269.9	272.8	287.6	304.7	310.2
135°	286.5	287.5	298.7	316.1	320.5
137.5°	301.7	302.3	310.7	325.6	329.9
140°	316.4	318.2	321.7	337.0	339.7
142.5°	330.9	331.6	332.3	345.6	349.0
145°	346.0	345.7	346.8	354.7	357.5
147.5°	358.1	359.5	360.5	363.6	365.7
150°	371.8	372.5	373.2	373.2	373.2
152.5°	383.1	384.1	384.5	385.2	383.4
155°	395.1	395.1	395.4	396.8	394.4
157.5°	405.3	404.9	405.3	406.7	404.6
160°	414.8	414.1	414.1	415.8	414.4
162.5°	423.2	422.2	422.5	424.3	421.8
165°	430.3	429.2	429.2	431.4	428.9
167.5°	436.3	434.9	435.2	437.3	435.2
170°	441.2	439.8	439.8	442.3	439.8
172.5°	445.1	443.7	443.7	445.8	443.3
175°	447.6	446.2	446.2	448.3	445.8
177.5°	449.0	447.6	447.6	449.7	447.2
180°	448.6	448.6	448.6	448.6	448.6

(END OF REPORT)